



This is a digital copy of a book that was preserved for generations on library shelves before it was carefully scanned by Google as part of a project to make the world's books discoverable online.

It has survived long enough for the copyright to expire and the book to enter the public domain. A public domain book is one that was never subject to copyright or whose legal copyright term has expired. Whether a book is in the public domain may vary country to country. Public domain books are our gateways to the past, representing a wealth of history, culture and knowledge that's often difficult to discover.

Marks, notations and other marginalia present in the original volume will appear in this file - a reminder of this book's long journey from the publisher to a library and finally to you.

Usage guidelines

Google is proud to partner with libraries to digitize public domain materials and make them widely accessible. Public domain books belong to the public and we are merely their custodians. Nevertheless, this work is expensive, so in order to keep providing this resource, we have taken steps to prevent abuse by commercial parties, including placing technical restrictions on automated querying.

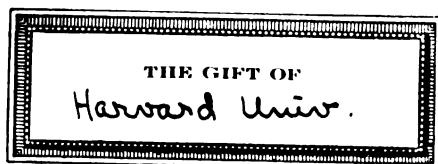
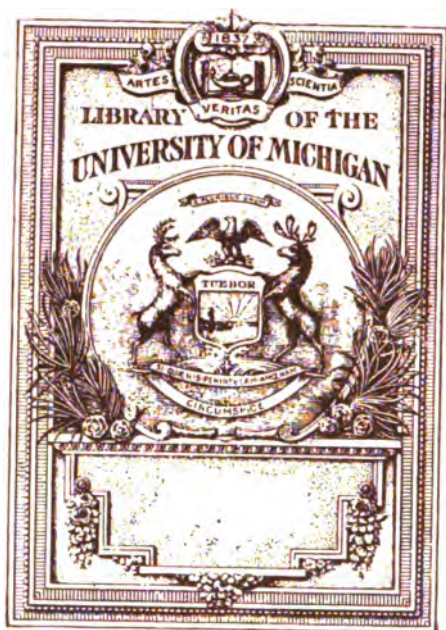
We also ask that you:

- + *Make non-commercial use of the files* We designed Google Book Search for use by individuals, and we request that you use these files for personal, non-commercial purposes.
- + *Refrain from automated querying* Do not send automated queries of any sort to Google's system: If you are conducting research on machine translation, optical character recognition or other areas where access to a large amount of text is helpful, please contact us. We encourage the use of public domain materials for these purposes and may be able to help.
- + *Maintain attribution* The Google "watermark" you see on each file is essential for informing people about this project and helping them find additional materials through Google Book Search. Please do not remove it.
- + *Keep it legal* Whatever your use, remember that you are responsible for ensuring that what you are doing is legal. Do not assume that just because we believe a book is in the public domain for users in the United States, that the work is also in the public domain for users in other countries. Whether a book is still in copyright varies from country to country, and we can't offer guidance on whether any specific use of any specific book is allowed. Please do not assume that a book's appearance in Google Book Search means it can be used in any manner anywhere in the world. Copyright infringement liability can be quite severe.

About Google Book Search

Google's mission is to organize the world's information and to make it universally accessible and useful. Google Book Search helps readers discover the world's books while helping authors and publishers reach new audiences. You can search through the full text of this book on the web at <http://books.google.com/>

B 50802 8 DUPL



Harvard University
Cambridge

**REPORTS OF THE
PRESIDENT AND THE TREASURER
OF HARVARD COLLEGE**

1916-17



**CAMBRIDGE
PUBLISHED BY THE UNIVERSITY
1918**



CONTENTS

| | PAGE |
|--|----------|
| PRESIDENT'S REPORT | 5-27 |
| REPORTS OF DEPARTMENTS:— | |
| THE FACULTY OF ARTS AND SCIENCES | 29-69 |
| THE COLLEGE | 70-74 |
| ATHLETIC SPORTS | 75, 76 |
| THE GRADUATE SCHOOL OF ARTS AND SCIENCES | 77-95 |
| THE GRADUATE SCHOOL OF BUSINESS ADMINISTRATION | 96-109 |
| THE SCHOOL OF ARCHITECTURE | 110-112 |
| THE SCHOOL OF LANDSCAPE ARCHITECTURE | 113-117 |
| THE BUSSEY INSTITUTION AND THE HARVARD FOREST | 118-125 |
| THE DIVINITY SCHOOL | 126-135 |
| THE LAW SCHOOL | 136-141 |
| THE FACULTY OF MEDICINE | 142-146 |
| THE MEDICAL SCHOOL | 147-172 |
| THE GRADUATE SCHOOL OF MEDICINE | 173-175 |
| THE SCHOOL OF TROPICAL MEDICINE | 176-178 |
| THE DENTAL SCHOOL | 179-184 |
| SCHOLARSHIPS IN THE MEDICAL AND DENTAL SCHOOLS | 185 |
| THE LIBRARY | 186-194 |
| APPLETON CHAPEL AND PHILLIPS BROOKS HOUSE | 195-197 |
| THE GRAY HERBARIUM | 198-201 |
| THE BOTANIC GARDEN | 202-204 |
| THE BOTANICAL MUSEUM | 205, 206 |
| THE ARNOLD ARBORETUM | 207-209 |
| THE CHEMICAL LABORATORY | 210, 211 |
| THE JEFFERSON PHYSICAL LABORATORY | 212 |
| THE CRUFT LABORATORY | 213, 214 |
| THE PSYCHOLOGICAL LABORATORY | 215, 216 |
| THE OBSERVATORY | 217-223 |
| THE BLUE HILL OBSERVATORY | 224-228 |
| THE MUSEUM OF COMPARATIVE ZOOLOGY | 229-234 |

REPORTS OF DEPARTMENTS (*continued*).

| | |
|--|----------|
| THE ZOÖLOGICAL LABORATORY | 235-237 |
| THE MINERALOGICAL MUSEUM AND LABORATORIES OF MINERALOGY AND PETROGRAPHY | 238, 239 |
| THE PEABODY MUSEUM OF AMERICAN ARCHAEOLOGY AND ETHNOLOGY | 240-244 |
| THE SEMITIC MUSEUM | 245 |
| THE FOGG ART MUSEUM | 246-250 |
| THE GERMANIC MUSEUM | 251 |
| HARVARD UNIVERSITY PRESS | 252-254 |
| UNIVERSITY EXTENSION | 255-264 |
| RADCLIFFE COLLEGE | 265-268 |
| APPENDIX | 269-298 |
| INDEX | 299-310 |

TREASURER'S STATEMENT

PRESIDENT'S REPORT

1916-17

TO THE BOARD OF OVERSEERS: —

The President of the University has the honor to submit the following report for the year 1916-17: —

The last report contained a short account of the effort then being made to work out, with the approval of the War Department, a course of training for officers that would at the same time satisfy the requirements of the Department in regard to the amount of drill, and comprise a degree of intellectual work justifying its treatment as an elective in the college curriculum. A tentative course under General Order 49 was being conducted by Captain Cordier, and the matter was still under consideration when Count Bernstorff was given his passports. The situation was at once changed. The course covered in fact all the requirements of the General Order, and far more; but the question became less one of complying with any regulations issued in time of peace than of fitting the men rapidly for active service. The problem of military training in endowed colleges in time of peace must be left for solution until the war is over; and then its form will depend, in large measure, upon any provisions that Congress may enact on the subject of universal military service. The experience of the last few months has, however, shown that the endowed colleges, in which military training has not hitherto been given, can train their students rapidly; that students furnish excellent material for officers; and that the universities and colleges possess certain advantages in this kind of work. It does not always happen that a man who knows a subject well himself can impart it to others. Teaching is an art, and professional teachers have learned it by long practice. This is one of the advantages of colleges in giving military instruction. Another is the habit of a university when called upon to teach a subject to seek for the best instructors wherever they can be found. Both of these matters will be referred to again in this report.

The entrance of the United States into the war brought to the University new questions. The problem presented was to give the utmost aid to the country without dropping any part of the educational work for which the University exists, or lowering the scholarly standard which makes that work worth doing. It was evident that, during this war and after its close, the country would need more than ever educated men, and men with special knowledge of many kinds. It was not less clear that many of our professors would be called upon for government service in various fields, and that the universities and colleges must provide their students with a military training that would fit them to enter the vast body of young officers required to organize a great army.

When the entrance of the United States into the war became imminent a formal unit of the Reserve Officers' Training Corps, under General Order 49, was at once formed, with Captain Constant Cordier as Professor of Military Science and Tactics. Except for a few weeks when Captain Alfred William Bjornstad was also detailed here, he had been the only military officer in charge of the training during the first half-year. The organization, direction and command of the corps involved so much work that the actual instruction of the men in small groups, both in the class-room and in the field, was largely done by members of our own staff. This was especially the case after the immediate probability of war increased the number of the corps and the amount of time devoted to military work; and the result showed what rapid progress can be made in the elementary stages under experienced teachers even when their military knowledge is very rudimentary. From other colleges both in the United States and in Canada comes the same report, that in beginning the training of students for commissions ability to teach is more important than professional military education or experience.

On February 3, just before the opening of the second half-year, Count Bernstorff was given his passports, and it became certain that this country would take part in the war. The military course was therefore made to include more hours a week, and a plan was formed for intensive training, — that is, for devoting to it the whole time of its members. The War Department detailed additional officers, Captain William Storrs Bowen arriving on February 27, and Captain James Andrew Shannon on March 20. Six non-

commissioned officers were also detailed. This placed the instruction upon a very strong foundation; but it seemed clear that if our troops were to fight in Europe we should be wise in obtaining all the knowledge possible of the methods of fighting developed in the present war. With the approval of Captain Cordier a letter was therefore sent to Ambassador Jusserand, on February 3, asking whether it would be possible to obtain a few disabled French officers to teach at Harvard — a plan that was approved also by General Leonard Wood, then the Commandant of this military district, and by General Scott, the Chief of Staff. The Ambassador received the proposal most cordially; and on his advice the French Government sent over six officers, chosen with great care from among the best men in the service. The chief of the mission was Commandant (now Lieutenant Colonel) Azan, who was at the time in charge of the instruction of officers and men in the Sixth French Army, his colleagues being Major Jean de Reviers de Mauny, Captains Adolphe Dupont and Marcel de Jarny, and Lieutenants André Morize and Jean Giraudoux. They arrived in this country at the end of April, shortly after war had been declared, and when they reached Boston early in May the sight of the French uniforms stirred deeply the enthusiasm both of the corps drawn up to receive them and of the throngs that lined the streets.

Meanwhile the Faculty of Arts and Sciences had been considering how best to maintain the standard of scholarship, and at the same time encourage military training. To announce that every man who entered the service of the country, or gave his whole time to the corps, should as a matter of course receive full credit for the year's work, would mean that for most of the students college work would cease with the announcement, — with serious disappointment for those who on account of physical defects might afterwards fail of admission to service or to the corps, and with no good results to those who would be idle until the service began. The Faculty, therefore, decided to hold special final examinations during the first week in May for the men who intended to enlist, or to enter one of the government officers' training camps, or take up the intensive training in the corps which was to begin immediately thereafter. The result was that regular college work was maintained at or near the usual level until replaced wholly by military service or training. The regulations of other faculties of the University were not all the

same, the credit being made to depend in the case of the Law School, for example, upon the standing of the student in the work of earlier years, not upon a special examination; but the object throughout was much the same.

Two hundred and eighty-four members of the corps, comprising on the whole the most mature and those who had had most military training, were admitted to the first officers' training camps of the government at Plattsburg and elsewhere,¹ while many others joined the Naval Reserve, the Aviation and Signal Corps, the Ambulance or the Medical Reserve Corps. The remainder of the Harvard corps began intensive training, that is full time work, early in May, and to it were then admitted not only students in the University but also graduates, men from other colleges, and men who had no college education, the total number being 1227.² After Commencement the Freshman Halls were used as barracks, and the training continued until August 15.

In addition to the drill and field exercises conducted in accordance with the practice of the American army, the study of the drill and field regulations, topography, sketching, target practice and the other matters regularly included in the work of training camps, the corps enjoyed the benefit of instruction by the French officers, who lectured upon the present methods of fighting in Europe, the use of trenches, machine guns, grenades, and the coöperation of the several arms. They taught the men the new formations in the French army, directed their construction of model trenches near Fresh Pond, their practice in laying out lines for intrenchments at

¹ The records of all but thirty of these have so far been received. They are as follows:—

| | |
|--|-----|
| Commissioned as Captain..... | 16 |
| 1st Lieutenant..... | 25 |
| 2d Lieutenant..... | 153 |
| Provisional 2d Lieutenant..... | 2 |
| <hr/> | |
| Total commissioned..... | 196 |
| Appointed Sergeants in National Army..... | 3 |
| Transferred to Signal, Naval Reserve and Aviation Schools..... | 11 |
| Recommended for additional training..... | 16 |
| Resigned, discharged as physically unfit, etc..... | 28 |
| <hr/> | |
| Total..... | 254 |

² The whole number of names on the roster from February to August was 1885, of which 1139 were those of Harvard students, 309 of Harvard graduates, 290 of men from other colleges, and 147 of men with no college affiliations.

Waverley and in assaulting and defending these by day and night; and finally, for the last two weeks they conducted field manoeuvres in camp at Barre.

Before the close of the training Captain Cordier and Captain Bowen were withdrawn for active service, but they had organized the corps so thoroughly that it remained in excellent condition. At the close of the period Captain Shannon, the idol of the men, was also called away.¹ The training was brought to an end just before the opening of the second series of government officers' training camps; and to these were appointed 296 members of the corps, being almost all the men of the requisite age who were recommended by Captain Shannon. It is interesting to note that seven members, too young to go to Plattsburg, were invited by General Leonard Wood to Fort Riley to explain the methods of war which they had learned from the French officers. This they did to the satisfaction of the General and his officers.

Colonel Azan and his colleagues were, indeed, much in demand; and so far as time permitted they gave instruction at several colleges and elsewhere. So successful was their teaching that after the close of the first government camps 550 newly commissioned officers of various grades from the eleven camps east of the Mississippi were sent to Harvard for four weeks to study with them. This body of men, which called itself the Iron Battalion, out of compliment to Colonel Azan whose division in France had borne that name, were likewise quartered in the Freshman Halls.

The War Department had now decided that American recruits should be taught something of the latest methods of warfare, not only after they reached Europe, but also before they crossed the ocean. A large number of French officers were therefore brought over here; and since almost all the members of our corps who had reached the age prescribed had already gone, and the remaining students could receive commissions only after passing through government training camps, it seemed that a smaller number of French officers would suffice for our purpose, while their colleagues, if detached to teach in the army camps, would make a larger contribution to the one great object of winning the war. It was agreed,

¹ Captain Winfield S. Overton was also detailed here from June 27 to August 15, but owing to an accident most of his time was unfortunately spent in the hospital.

therefore, that Colonel Azan, who had been appointed chief of the French military instruction in the northern district, should continue to supervise the instruction at Harvard in modern war, and that Lieutenant Morize alone should be left to give it. Meanwhile Major William Francis Flynn (U. S. A. Retired) has been detailed as commandant of the Harvard training corps, which, in spite of the depleted condition of the student body, now contains more than one thousand men. For the coming year the military courses will cover the ground prescribed by the War Department for the training of officers in colleges; but, instead of taking four years in accordance with the regulations, will cover it in much less time and include much more, so that, if necessary, the men may be ready to serve earlier if needed in the present war.

During the period of the war in Europe preceding the entrance of the United States into the conflict a large number of undergraduates, as well as graduates, served in the French Ambulance Service. Many of them received the *croix de guerre* for courage under shell fire, and their conduct reflected great credit on themselves and the college. For the most part they enlisted for six months, completing their college work in three years and a half, so that their absence, while giving them an opportunity to gain an experience of the highest value in the formation of character, and to relieve the sufferings and save the lives of wounded French soldiers, did not seriously interrupt their education. When this country entered the war conditions changed. The period of enlistment for service in the Ambulance was extended from six months to the duration of the war; officers' training camps were opened for men who were within three months of their majority; the selective draft was applied to men over twenty-one, and enlistment in the Army and Navy was open to those who had not reached that age. Students could no longer enter any of these services without breaking off their college education, and this raised a difficult problem for them. A large number, although still under twenty-one, enlisted in the Army and Navy and the Ambulance. While placing no obstruction in the way of these students, it became proper for the University to give some advice, and a circular was issued as follows: —

STUDIES IN WAR-TIME

A Statement by President Lowell

Rumors seem to have got abroad in some places that Harvard College will shut its gates next year, or at least will not devote itself to the ordinary process of education. If such rumors merit contradiction they may not only be contradicted, but repudiated, for the College would be unworthy of its traditions and its endowment if it ceased to carry on its proper work at a crisis like the present. The Freshman Halls, like all the other dormitories and academic buildings, will be open as usual, and the activities, especially of the Freshman class, will go on without change.

This country will need educated men no less during and after this war than it has needed them before. If education, not specifically directed to military use, is a mere luxury, enabling men to find a source of relaxation and enjoyment, but not essential to the welfare of the community as a whole, then the College had better close its doors permanently. But if, on the other hand, education, in the manifold forms in which it is given by the various institutions of learning, is essential to modern civilization and to the United States, then the College certainly cannot cease to impart it.

France, which, on the side of the Allies, has borne by far the heaviest part in the war, has insisted that her young men should pursue their ordinary courses of study until they came to the age for beginning military instruction. We cannot do better than follow that example.

Our young people are a little too prone to mistake excitement for duty. The outbreak of the war naturally makes people a little excited, but this is a time when every man and boy should have a more than usually keen sense of duty, should not allow excitement or exuberance of patriotism to deter him from performing to the best of his ability the obligations that lie before him; and until the age or the opportunity of rendering real military or other service arrives, the duty of the boy or young man is to train himself to clear thought, to steady application, and to persistent purpose. The college course is designed to furnish these things; and the only difference in the feeling that a young man should have about college in these days is a stronger determination to make the most of the opportunities it affords, to take his studies at school or college more seriously, and more with the object, as a citizen, of making them ultimately profitable to the nation.

Many undergraduates, anxious to do some active work, had entered Class IV of the Naval Reserve as enlisted men to patrol the coast. The number of men in this branch of the Naval Reserve was in fact larger than could be of immediate use, and the Navy Department decided to give to students under twenty-one leave of absence to pursue their college studies. But the men so released desired to fit themselves for better service in the Navy, and hence a course has been established which will occupy their whole time throughout the current academic year and prepare them for the

ensigns' examination. It is designed to include mathematics, the theory and practice of navigation, nautical astronomy and meteorology, naval history, seamanship, ordnance and gunnery, naval regulations, and drill. The instruction is given in part by members of our own staff and in part by Lieutenant Edward Forbes Greene (U. S. N. Retired) who has been detailed to take charge of the course.¹ Forty-seven students are now registered in it and it will count as a full year's work towards the degree.

The Reserve Officers' Training Corps and the Naval Course are under the control of the Faculty of Arts and Sciences. The School of Business Administration was also equipped to give instruction that might prove of great value in connection with the war; and at the request of the Council of National Defence its Faculty provided in the early summer two short courses for men intending to enter the Quartermaster or Ordnance Corps, one of them on account-keeping for military stores, the other on the inspection of cost accounting for war contracts. The men taking these courses were employed at once by the Government. In addition, there was offered to members of the Harvard Training Corps a short course on supply, designed for prospective officers of the line who will serve with troops. In these three courses were enrolled one hundred and forty-five men selected for their fitness to pursue the work.

The Medical School has naturally been engaged in preparing men for military duties, quite apart from the service of its instructing staff among the troops which will be mentioned later. At the request of the Surgeon General, courses in medicine for the Army and Navy have been given at the School; and a course in orthopedic surgery has recently been established to provide special instruction to selected members of the Medical Corps. Upon completion of the course these last will be assigned to active duty in reconstruction hospitals in France and the United States. The large demand for physicians and surgeons in the war has drawn heavily upon the members of the profession in France and England and is now drawing upon those in this country. Deeming it important, therefore, to prepare students for active practice as rapidly as pos-

¹ Since these words were written Lieutenant Greene has died from a sudden hemorrhage. His death is a great loss to the course and to the friends he had made in his brief stay at the University.

sible, the men who had finished the third year were offered the option of continuing their regular instruction at the School and the hospitals throughout the summer, or at the ordinary time. By this process ninety men will have completed the work for their degrees, and become available for the Medical Corps, next February instead of the following June.

The University has also done something for the public enlightenment. Under the auspices of the Summer School, for example, a number of courses were given on subjects relating to the war. A series of twenty-four lectures on the historical aspects of the present conflict was largely attended, as was also a course on the nutritive value of different kinds of food.

The instruction hitherto described has been given by our own teaching staff, or by officers who were for the time members of the University; and has been given in the main to our own students. But this covers by no means all the service we have sought to render. In May Captain William R. Rush, Commandant of the Charlestown Navy Yard, organized here a school for naval wireless operators, who were given a three months' (now extended to four months) course on the subject. At first two hundred and fifty enlisted men were detailed and they were housed and taught in Pierce Hall, but the number was rapidly increased to six hundred, then to a thousand, until now they are about twenty-five hundred, and are expected to reach three thousand. They are commanded, trained and taught by their own officers under the charge of Lieutenant Nathaniel F. Ayer; but they are for the most part housed and are wholly fed and instructed in buildings of the University. They are lodged in Perkins and Walter Hastings Halls and in the Hemenway Gymnasium, taught in Pierce and Austin Halls, read, write and take comfort in the Divinity Library and a Y. M. C. A. hut, and they take their meals at Memorial Hall, the Harvard students who would ordinarily go there being transferred to the Union. They come from all parts of the country, and as the other naval wireless schools are being closed they will doubtless be here throughout the war.

Finally, as the present term was opening, Captain James P. Parker, who had been conducting under the authority of the Navy Department a four months' school for ensigns at the Massachusetts Institute of Technology, found that he could no longer be furnished

there with the space he needed, and asked if he could obtain it at the University. The number of his cadets is one hundred and fifty, and we placed at his disposal for their lodging Holyoke House, for their meals the dining room in Standish Hall which happened to be free, while offices and a lecture room were provided in the College Yard. The large falling off in our students by reason of the number who have left for the war has made it possible to house these men for the Navy, and it is a pleasure to think that instead of standing empty our buildings can be turned to the service of the country.

Previous annual reports described the Harvard Surgical Unit which occupies Base Hospital 22 with the British Expeditionary Force in France. This has been continued under the lead of Dr. Hugh Cabot, who, with his colleagues and nurses, agreed to serve there so long as the war shall last. Their surgical work, general and oral, has been invaluable and has given the highest satisfaction to the English Army medical authorities. Meanwhile, in anticipation of a possible war on the part of this country, three other hospital units were organized: one by the Medical School in connection with the Peter Bent Brigham Hospital under the lead of Dr. Harvey Cushing; another by the Massachusetts General Hospital; and the third by the Boston City Hospital; both of these last being also composed in large part of members of the teaching force of the School. The first two of the three latter units have already gone, one to serve with the British and the second with the American forces in the war. A number of other members of the Faculty of Medicine are engaged in military work at home or abroad; and it speaks well for the strength of the teaching force at the School that the courses have nevertheless been continued unimpaired.

The Dental School has contributed its quota to these hospitals; and, at the request of the Government, its clinic of one hundred and twenty-five chairs has been used for dental treatment of drafted men, and for those temporarily exempted from draft on account of the condition of their teeth. The Dental School also maintains a couple of chairs at the Naval Radio School in Cambridge, and one at Commonwealth Pier for members of the Naval Reserve.

The needs of a country fighting a modern war, and the special knowledge on which it calls, extend into fields of which one would not have dreamed. A couple of examples have been brought home

to us. The Bussey Institution is the headquarters of the Botanical Raw Products Committee organized under the Council for National Defence. It serves as a clearing house where manufacturers needing raw products of this kind may obtain information about them; and it collects and distributes agricultural and commercial data concerning all plants of economic value. At the opposite end of the scientific spectrum the Psychological Laboratory is engaged in devising and standardizing tests that will enable the Government to select from a group of volunteers for aviation those most likely to be successful, and to eliminate those ill fitted for the service. The Laboratory is also trying experiments in determining the natural capacity of sailors to discriminate among the many sounds transmitted by under-water telephones.

These are only examples of the manifold services rendered throughout the land by university professors. They extend through almost all departments from physics and chemistry, where the work is secret, to languages, — two instructors in French literature, Professor Allard and M. Mercier, having spent several weeks during the summer at West Point helping the cadets to a fluent use of French in conversation, while on a request from the Navy Yard members of the German Department have translated inscriptions, directions and papers found on the interned German ships. Some of the public work has been done in addition to regular duties at the University; some has required absence from Cambridge. In the latter case the general principle adopted by the Corporation has been that a continuing member of the staff shall not lose income by serving the country, but shall be paid whatever may be required, in addition to any public remuneration, to bring his pay up to the amount of his regular salary. The number of members of the instructing staff who have been doing war work of some kind in addition to their ordinary duties is one hundred and seven. The number of those who have been given leave of absence for the purpose is one hundred and twenty-eight.¹

One cannot fail to be gratified by the elasticity, the adaptability to new and exacting conditions, that the University has shown. Strenuous military training has been given, military and civil services have been rendered by students and teachers; and at the

¹ The names are given in the *Harvard Alumni Bulletin* of November 15, 1917; but some changes have occurred since that time.

same time the regular work of the University has been continued as usual. The instruction offered has diminished very little and in essentials not at all. The stream of education has been, as it should be, kept running in full force. The activity in research has, of course, been seriously interrupted. It has suffered by the withdrawal of some of the men conducting it into government service of some kind, not always involving research. Scientific investigation at the University has also been diverted to a great extent into channels related to the war, but many of these channels are not unlikely to produce results of high value to pure and applied science hereafter more beneficent than destructive.

So far as the students have remained at College, and this is true of most of those still under twenty-one, they have not been suffered to neglect their studies. In fact, the records show that the attendance of the Freshmen at their courses this autumn has been on the whole rather more regular than ever before. All this has been due to the spirit of the instructing staff, which has assumed cheerfully additional work, and has insisted on maintaining the existing standards of education while ever ready to promote to the utmost any service in the war that the University could render. Never has the writer known the Faculty of Arts and Sciences so completely harmonious, the burdens of its members that might have been heavy made by sympathy so light, as under the shadow of this war.

The spirit that has moved the instructing staff of the University has been present in full measure among the students and the alumni. Mr. Howe has compiled for the *Bulletin* the records of students, former students and graduates in this war. So far as they have yet been collected the numbers in different forms of service are as follows:

| | |
|---|--------------|
| United States Army | 1,997 |
| United States Navy | 713 |
| Foreign Armies | 122 |
| Medical and Surgical Service | 591 |
| Harvard R. O. T. C. and other military bodies | 917 |
| Ambulance Service | 420 |
| Red Cross and other relief work | 229 |
| National, State, and other committee work | 498 |
| Miscellaneous | 125 |
| Total | 5,612 |

The war has brought to the front in academic life many questions which are new, or present themselves to many people in a new light. One of these is liberty of speech on the part of the professor; and it seems a not unfitting time to analyze the principles involved, and seek to discover their limitations. In so doing I shall deal only with higher education, that is with universities and colleges.

Experience has proved, and probably no one would now deny, that knowledge can advance, or at least can advance most rapidly, only by means of an unfettered search for truth on the part of those who devote their lives to seeking it in their respective fields, and by complete freedom in imparting to their pupils the truth that they have found. This has become an axiom in higher education, in spite of the fact that a searcher may discover error instead of truth, and be misled, and mislead others, thereby. We believe that if light enough is let in, the real relations of things will soon be seen, and that they can be seen in no other way. Such a principle, however, does not solve the actual problems, because the difficulty lies in the application; and for that purpose one must consider the question in various aspects. One must distinguish between the matters that fall within and those that lie outside of the professor's field of study; then there is a difference in the professor's position in his class-room and beyond it. These two cross divisions raise four distinct problems that may profitably be discussed in succession.

The teaching by the professor in his class-room on the subjects within the scope of his chair ought to be absolutely free. He must teach the truth as he has found it and sees it. This is the primary condition of academic freedom, and any violation of it endangers intellectual progress. In order to make it secure it is essential that the teaching in the class-room should be confidential. This does not mean that it is secret, but that what is said there should not be published. If the remarks of the instructor were repeated by the pupils in the public press, he would be subjected to constant criticism by people, not familiar with the subject, who misunderstood his teaching; and, what is more important, he would certainly be misquoted, because his remarks would be reported by the student without their context or the qualifications that give them their accuracy. Moreover, if the rule that remarks in the class-room shall not be reported for publication elsewhere is to be maintained, the professor himself must not report them. Lectures open to the pub-

lic stand on a different footing; but lectures in a private class-room must not be given by the instructor to the newspapers. That principle is, I believe, observed in all reputable institutions.

This brings us to the next subdivision of the inquiry, the freedom of the professor within his field of study, but outside of his class-room. It has been pointed out that he ought not to publish his class-room lectures as such in the daily press. That does not mean a denial of the right to publish them in a book, or their substance in a learned periodical. On the contrary, the object of institutions of learning is not only the acquisition but also the diffusion of knowledge. Every professor must, therefore, be wholly unrestrained in publishing the results of his study in the field of his professorship. It is needless to add that for the dignity of his profession, for the maintenance of its privileges, as well as for his own reputation among his fellows, whatever he writes or says on his own subject should be uttered as a scholar, in a scholarly tone and form. This is a matter of decorum, not of discipline; to be remedied by a suggestion, not by a penalty.

In troublous times much more serious difficulty, and much more confusion of thought, arises from the other half of our subject, the right of a professor to express his views without restraint on matters lying outside the sphere of his professorship. This is not a question of academic freedom in its true sense, but of the personal liberty of the citizen. It has nothing to do with liberty of research and instruction in the subject for which the professor occupies the chair that makes him a member of the university. The fact that a man fills a chair of astronomy, for example, confers on him no special knowledge of, and no peculiar right to speak upon, the protective tariff. His right to speak about a subject on which he is not an authority is simply the right of any other man, and the question is simply whether the university or college by employing him as a professor acquires a right to restrict his freedom as a citizen. It seems to me that this question can be answered only by again considering his position in his class-room and outside of it.

The university or college is under certain obligations to its students. It compels them to attend courses of instruction, and on their side they have a right not to be compelled to listen to remarks offensive or injurious to them on subjects of which the instructor is not a master, — a right which the teacher is bound to respect. A professor of Greek, for example, is not at liberty to harangue his

pupils on the futility and harmfulness of vaccination; a professor of economics, on Bacon's authorship of Shakespeare; or a professor of bacteriology, on the tenets of the Catholic Church. Everyone will admit this when stated in such extreme forms; and the reason is that the professor speaks to his class as a professor, not as a citizen. He speaks from his chair and must speak from that alone. The difficulty lies in drawing the line between that which does and does not fall properly within the professor's subject; and where the line ought to be drawn the professor can hardly claim an arbitrary power to judge, since the question affects the rights both of himself and his students. But serious friction rarely arises, I believe, from this cause, and a word of caution would ordinarily be enough.

The gravest questions, and the strongest feelings, arise from action by a professor beyond his chosen field and outside of his class-room. Here he speaks only as a citizen. By appointment to a professorship he acquires no rights that he did not possess before; but there is a real difference of opinion today on the question whether he loses any rights that he would otherwise enjoy. The argument in favor of a restraining power on the part of the governing boards of universities and colleges is based upon the fact that by extreme, or injudicious, remarks that shock public sentiment a professor can do great harm to the institution with which he is connected. That is true, and sometimes a professor thoughtlessly does an injury that is without justification. If he publishes an article on the futility and harmfulness of vaccination, and signs it as professor in a certain university, he leads the public to believe that his views are those of an authority on the subject, approved by the institution and taught to its students. If he is really a professor of Greek, he is misleading the public and misrepresenting his university, which he would not do if he gave his title in full.

In spite, however, of the risk of injury to the institution, the objections to restraint upon what professors may say as citizens seem to me far greater than the harm done by leaving them free. In the first place, to impose upon the teacher in a university restrictions to which the members of other professions, lawyers, physicians, engineers, and so forth, are not subjected, would produce a sense of irritation and humiliation. In accepting a chair under such conditions a man would surrender a part of his liberty; what he might say would be submitted to the censorship of a board

of trustees, and he would cease to be a free citizen. The lawyer, physician or engineer may express his views as he likes on the subject of the protective tariff; shall the professor of astronomy not be free to do the same? Such a policy would tend seriously to discourage some of the best men from taking up the scholar's life. It is not a question of academic freedom, but of personal liberty from constraint, yet it touches the dignity of the academic career.

That is an objection to restraint on freedom of speech from the standpoint of the teacher. There is another, not less weighty, from that of the institution itself. If a university or college censors what its professors may say, if it restrains them from uttering something that it does not approve, it thereby assumes responsibility for that which it permits them to say. This is logical and inevitable, but it is a responsibility which an institution of learning would be very unwise in assuming. It is sometimes suggested that the principles are different in time of war; that the governing boards are then justified in restraining unpatriotic expressions injurious to the country. But the same problem is presented in war time as in time of peace. If the university is right in restraining its professors, it has a duty to do so, and it is responsible for whatever it permits. There is no middle ground. Either the university assumes full responsibility for permitting its professors to express certain opinions in public, or it assumes no responsibility whatever, and leaves them to be dealt with like other citizens by the public authorities according to the laws of the land.

All this refers, of course, to opinions on public matters sincerely uttered. If a professor speaks in a way that reveals moral obliquity, he may be treated as he would on any other evidence of moral defect; for character in the teacher is essential to the welfare of the students.

Every human attempt to attain a good object involves some compromise, some sacrifice of lesser ends for the larger ones. Hence every profession has its own code of ethics designed to promote its major objects, and entailing restrictions whose importance is often not clear to outsiders. But for the teachers in American universities and colleges the code of professional ethics does not appear to have been thoroughly developed or to be fully understood either by teachers or trustees. That result requires time, and for this reason few difficulties arise in institutions that have had a long and gradual growth.

Surely abuse of speech, abuse of authority and arbitrary restraint and friction would be reduced if men kept in mind the distinction between the privilege of academic freedom and the common right of personal liberty as a citizen, between what may properly be said in the class-room and what in public. But it must not be forgotten that all liberty and every privilege implies responsibilities. Professors should speak in public soberly and seriously, not for notoriety or self advertisement, under a deep sense of responsibility for the good name of the institution and the dignity of their profession. They should take care that they are understood to speak personally, not officially. When they so speak, and governing boards respect their freedom to express their sincere opinions as other citizens may do, there will be little danger that liberty of speech will be either misused or curtailed.

The falling off in the number of students in most departments of the University on account of the war has naturally been large. The registrations as compared with last year have been as follows: —

| Harvard College: | 1916 | 1917 |
|--|-------|-------|
| Freshmen | 694 | 559 |
| Sophomores | 651 | 446 |
| Juniors | 640 | 359 |
| Seniors | 424 | 215 |
| Unclassified | 123 | 77 |
| Out-of-course | 50 | 25 |
| <hr/> | <hr/> | <hr/> |
| Total College | 2,582 | 1,681 |
| Graduate School of Arts and Sciences .. | 605 | 296 |
| Special Students | 60 | 39 |
| The School of Business Administration | 222 | 93 |
| The Divinity School (including those primarily registered in the affiliated schools) | 73 | 59 |
| Law School | 856 | 296 |
| Medical School | 358 | 386 |
| Dental School | 240 | 211 |
| School of Architecture | 40 | 18 |
| School of Landscape Architecture | 23 | 7 |
| Bussey Institution | 16 | 6 |
| Students registered at Harvard in the Engineering and Mining School (in coöperation with the Massachusetts Institute of Technology) | 581 | 592 |
| <hr/> | <hr/> | <hr/> |
| Total (exclusive of Summer School and Extension Stu- dents, etc.) | 5,656 | 3,684 |

An inspection of these figures is not without interest. In the College the percentage of loss increased steadily from the Freshmen to the Seniors, being determined mainly by the proportion of students over twenty-one. In the other schools (except the Dental School) they are almost all above that age and the percentage of loss is determined by different considerations. In the Medical and Dental Schools, and in the School of Engineering, special efforts have been made to retain the students on the ground that they can render far greater service in this war as trained specialists than they can possibly do without that training.¹ The figures for the remaining schools cast, perhaps, some light on the physical fitness or martial spirit of the student body. The greatest loss has fallen upon the Law School, which has less than two thirds as large an attendance as last year. Here the diminution in tuition fees is peculiarly severe owing to the comparatively small amount of endowment. In order to save something in expense the School has withdrawn for the year from Austin Hall, which is being used for instruction by the Radio School. The loss in the School of Business Administration has been in nearly as large a ratio; and, indeed, considering the large proportion of young men rejected at the physical examination for military service, the falling off everywhere has been highly creditable to our student body, — the more so from the fact that the draft plays an insignificant part in the number of those who have gone.

In view of the large demand for surgeons and physicians in the war the students in the Medical and Dental Schools were urged to complete their studies before offering their services to the Government, and in fact they could not be enrolled in the Medical Corps of the Army or Navy until they had obtained their medical degrees. Recognizing the importance of a large supply of such men the War Department decided that drafted men, who had completed a year in a medical school, should be ordered back to complete their work — a provision which it is hoped may soon be extended to dental schools also; for the value of dentistry, both in fitting for service men with defective teeth, and in treating ghastly facial wounds,

¹ The increase of Harvard students in the school conducted in coöperation with the Massachusetts Institute of Technology is due to the larger number of men who have come under the operation of the agreement. The actual number of students at the Institute in the branches of science to which the agreement applied has fallen from 761 to 617, a loss of 18.92 per cent.

has begun to be recognized. In the Medical School there was some falling off in the entering class; but it so happened that the fourth-year class was much smaller in 1916-17 than it is in 1917-18, and hence the total enrolment in the School is actually larger than last year.

It may be interesting to compare these figures with the registrations in the different departments of the University before and after the outbreak of the Civil War, which were as follows:—

| Harvard College | 1860-1861 | 1861-1862 | 1862-1863 |
|----------------------------------|-----------|-----------|-----------|
| Freshmen | 125 | 114 | 104 |
| Sophomores | 130 | 115 | 106 |
| Juniors | 98 | 118 | 106 |
| Seniors | 80 | 95 | 116 |
| Total College | 433 | 442 | 432 |
| Lawrence Scientific School . . . | 61 | 57 | 56 |
| Graduate Students, etc. | 8 | 7 | 9 |
| Divinity School | 22 | 18 | 17 |
| Law School | 139 | 103 | 89 |
| Medical School | 206 | 206 | 211 |
| Total | 869 | 833 | 814 |

It may be observed that, except in the Law School, the loss of students in no part of the University was large.

The coöperation with the Massachusetts Institute of Technology has been working efficiently and with little friction. It has brought about some modifications in the curricula hitherto followed in each institution. It was accomplishing the object for which it was designed, the maintenance of a single school of greater power than either institution could have maintained alone. But the arrangement was provisional, depending upon the legal authority of the University to make it.

The bill for instructions brought by the Corporation to ascertain whether the agreement was within its powers under the will of Gordon McKay or not, has been argued, and the Supreme Judicial Court of the Commonwealth decided on November 27, 1917, that it is not in accord with the provisions of the will. The decision puts an end to the agreement. Few persons familiar with the present-day problems and needs of technical education in America entertain any doubt that the combination with the Institute was in

the public interest; and after working together the instructing staffs in the various branches of engineering of both institutions appear to be strongly of opinion that better work can be done for the students and the community in combination than separately. The Governing Boards believed that the agreement gave effect in the fullest possible measure to the leading object of Gordon McKay — the conduct of a school that should give to young men from the public schools the best instruction in all grades of engineering from the lowest to the highest. The Corporation was advised by its counsel that the agreement was in harmony with the provisions of the will; but it has been decided otherwise. Whether any other mode of coöperation is in accord with the intentions of McKay, and if not what form the instruction he endowed shall take, must be matters of the most careful consideration. It need hardly be added that in any action the Corporation may propose the most scrupulous pains will be taken to conform both to the legal obligations of the trust and to the wishes of the testator.

Owing to the pressure of military duties and the curtailment of revenues, few changes in the various departments of the University have taken place during the year, except for those brought about by the war. In the main they have pursued their usual work without serious interruption, and for their activities the reader is referred to the reports of the several Deans and Directors, which in many cases will be found of peculiar interest.

Apart from the temporary absence of many members of the instructing staff by reason of public service in connection with the war, the University has suffered heavy losses by death and resignation. Among the professors in active service: Josiah Royce, who died on September 14, 1916, was mentioned in last year's report; as was also Professor Charles P. Parker, whose death came on December 2. Beginning as Tutor in Greek in 1883, he had in the successive academic grades taught Greek philosophy and literature for thirty-three years; and as Secretary of the Committee on the Choice of Electives he had from the outset guided with great tact and wisdom the new group system of undergraduate studies.¹ A fortnight later Professor Hugo Münsterberg died. He came from Germany to Harvard in 1892 as the first professor of experimental

¹ This very important position has been filled by the appointment of Asst. Professor George Harold Edgell.

psychology. Gifted with an active and versatile mind, he was extraordinarily prolific as a writer on many subjects and his writings were never uninteresting. Born and educated in Germany, and throughout his life a citizen of his native land, his sympathies were with that country in the present conflict; but at its outbreak he stated that he should never refer to the war in his class-room, and he never did. On February 17, 1917, died Edward Dyer Peters, Gordon McKay Professor of Metallurgy, one of the most eminent authorities in his field, whose reputation had gone around the world. Herbert Langford Warren, Nelson Robinson Jr. Professor of Architecture and Dean of the Faculty of Architecture, died on June 27. He had begun the instruction in that subject in the Lawrence Scientific School in 1893 and had been its chief motive force throughout its growth into a distinct school of the University.

Two professors emeriti have also died: Charles Joyce White, Assistant Professor and later Professor of Mathematics from 1870 until 1894, Registrar of the College Faculty for eight years, and a resident of Cambridge until his death; and John Williams White, Tutor, Assistant Professor and Professor of Greek from 1874 to 1909, who received from the University in 1913 a degree of Doctor of Letters for his distinguished work on Greek comedy. By resignation the University is poorer through the loss of four full professors, — Barrett Wendell, who needs the rest he well deserves; Kuno Francke, who desired to devote more time to his work on Germanic Literature; Ernest Carroll Moore, who left to become President of the Los Angeles State Normal College; and just as the new academic year was opening, William Allan Neilson, who was elected President of Smith College.

Beside the professors of Military Science and Tactics, and apart from changes of title, the new appointments and promotions to professorships have been as follows: — Henry Moore Bates, Dean of the Law School of the University of Michigan, was made Professor of Law for the year 1917-18, in place of Professor Kales, who left at the end of the academic year for which he was appointed. The other cases were all promotions: — Charles Townsend Copeland was made Associate Professor of English; Walter Fenno Dearborn and Henry Wyman Holmes, Professors of Education; William Duane, Professor of Bio-Physics; Theodore Lyman and George Washington Pierce, Professors of Physics; Edward Wyllys

Taylor, Professor of Neurology; and Henry Aaron Yeomans, Professor of Government. The exchange of professors was continued as last year. Professor Wallace Clement Sabine went to France, and Raoul Blanchard, Professor of Geography at the University of Grenoble, whose studies on the geographical determination of cities proved highly instructive, came to us. To the Western colleges we sent Professor James Hardy Ropes; and the visiting lecturers therefrom were Warren Milton Persons, Professor of Economics at Colorado College, and Charles Newton Smiley, Professor of Latin at Grinnell College. Professor Dupriez of the University of Louvain remained here last year, and will continue during the coming year and until his own university is again freed and opened.

Besides the annual payment from the trustees under the will of Gordon McKay, the University received by gift during the financial year \$2,271,900.03; the single gifts of \$50,000 or more being as follows:—

| | |
|--|--------------|
| Anonymous gift (subject to life estates) | \$200,000.00 |
| Anonymous gift (precise purposes not yet specified) | 387,942.00 |
| Gift of Mrs. William H. Bliss for scholarships and instruction in Forestry | 50,000.00 |
| Estate of Peter Paul Francis Degrand: French works and periodicals in the exact sciences | 75,000.00 |
| Dr. Henry I. Dorr (subject to life estates): Chair of Research and Teaching in Anaesthesia | 70,000.00 |
| Alexis Irenée Du Pont: The Department of Chemistry | 93,000.00 |
| Estate of Mrs. John E. Hudson: John E. Hudson Professorship of Archaeology | 145,733.50 |
| Estate of William S. Murphy: Murphy Scholarships .. | 50,893.80 |
| The Class of 1892: Twenty-fifth Anniversary Fund.... | 100,000.00 |

Of the amount received during the year \$432,900 was a part of the Endowment Fund of ten million dollars which the Alumni were preparing to raise for the University, but which was postponed on the entrance of our country into the war. This, indeed, is not a time to speak of the future needs of the University; but it is a time when financial difficulties will be great and a heavy deficit is certain. How large the annual deficit during the war will be it is impossible to estimate with accuracy, because we cannot tell how much the ranks of our students will ultimately be depleted. At present we have lost nearly two thousand, with tuition fees running from one hundred and fifty to two hundred dollars apiece, entailing a diminution of income between three and four hundred thousand

dollars. Something will, of course, be saved by the departure of many instructors and some full professors; but with the general policy of seeing that permanent teachers do not suffer by entering the service of the nation, and therefore of paying to those who have not abundant personal means the difference between any compensation they may receive from the government and their salaries from the University, the saving will cover only a small part of the loss; and since instructors as well as students are constantly departing, this also is an uncertain factor.

A. LAWRENCE LOWELL, *President*.

CAMBRIDGE, December 12, 1917.

REPORTS OF DEPARTMENTS

FACULTY OF ARTS AND SCIENCES

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I have the honor of making a report on the work of the Faculty of Arts and Sciences for the academic year 1916-17.

Besides the President the Faculty contained one hundred and two Professors, eight Associate Professors, forty-six Assistant Professors, two Lecturers, nineteen Instructors, the Recorder, and one other member, — in all, a hundred and eighty members.

The visiting professors were Professor Dupriez of the University of Louvain, Professor Persons of Colorado College, and Professor Smiley of Grinnell College.

At the end of the year the Faculty added to its numbers Major Paul J. L. Azan, Major Jean de Reviers de Mauny, Captain Adolphe Dupont, Captain Marcel de Jarny, Lieutenant André Morize, Lieutenant Jean Giraudoux, Captain William Storrs Bowen, and Captain James Andrew Shannon.

Instruction in 1916-17

With the following list of courses of instruction that were actually given under the authority of the Faculty, I print a statement of the number and the classification of the students in each course. The figures are those officially returned to the Recorder by the several instructors at the close of the academic year. The abbreviations are those ordinarily used in such lists: *Se.*, Senior; *Ju.*, Junior; *So.*, Sophomore; *Fr.*, Freshman; *Sp.*, Special; *uC.*, Unclassified; *ocC.*, Candidate for the Bachelor's degree out of course; *nC.*, Non-Collegiate; *Gr.*, Graduate School of Arts and Sciences; *G. B.*, Graduate School of Business Administration; *Di.*, Divinity; *And.*, Andover Theological Seminary; *E.T.S.*, Episcopal Theological School; *B.U.*, Boston University; *N.T.I.*, Newton Theological Institution; *L.*, Law School; *Me.*, Medical School; *Dn.*, Dental School; *S. A.*, School of Architecture; *S.L.A.*, School of Landscape Architecture; *B. I.*, Bussey Institution; *R.*, Radcliffe College; *M.I.T.*, Massachusetts Institute of Technology; *Instr.*, Instructor; *H. O.*, Health Officer; *S.T.M.*, School of Tropical Medicine.

GROUP I

SEMITIC LANGUAGES AND HISTORY

For Undergraduates and Graduates:—

- E1. Professor KELLNER. — Hebrew. Harper's Elements of Hebrew. Harper's Introductory Hebrew Method and Manual. Selections from the prose narratives of the Old Testament.
4 So., 1 Fr., 1 Di., 1 E.T.S. Total 7.
2. Professor LYON. — Hebrew. Syntax. Extensive reading in the Old Testament.
1 Fr., 3 Di. Total 4.
4. Professor LYON. — The Old Testament, with special reference to the history and the literature of Israel.
3 Se., 7 Ju., 7 So., 1 uC., 1 Sp., 2 Di. Total 21.
8. Dr. WOLFSON. — Post-Biblical Hebrew. Selections from the Talmud, Midrash, and Biblical commentaries.
1 Di. Total 1.
- 9 ¹/_{hf}. Dr. WOLFSON. — Jewish Literature and Life from the Second Century to the Present Time. 2 Se., 13 Ju., 9 So., 1 uC., 1 ocC. Total 26.
- 21 ¹/_{hf}. Dr. WOLFSON. — Introduction to Mediaeval Jewish Philosophy.
1 Se., 2 Ju., 4 So., 1 uC. Total 8.
22. Dr. WOLFSON. — Hebrew: Selections from Mediaeval and Modern Authors.
1 So. Total 1.

Primarily for Graduates:—

- †10. Professor LYON. — Assyrian. Delitzsch's Assyrian Grammar; Delitzsch's Assyrische Lesestücke.
3 Di. Total 3.
- †13. Professor JEWETT. — Arabic. Socin's Grammar; Brünnow's Chrestomathy.
1 Di. Total 1.
- †14. Professor JEWETT. — Arabic (second course). De Goeje's edition of Wright's Grammar; selections from the Qorân, the Hadith, and classical writers on geography and history. 1 Gr., 1 Se., 1 Di. Total 3.
17. Dr. WOLFSON. — Jewish Aramaic. Marti's Biblisch-Aramäische Grammatik; the Aramaic portions of Daniel and Ezra; Inscriptions and Papyri; selections from the Targums; Dalman's Aramäische Dialektproben.
1 N.T.I., 1 B.U. Total 2.
- 19a. Professor JEWETT. Syriac. Selections from Syriac prose.
2 Di. Total 2.

Course of Research

- 20a. Professor LYON. — Assyrian. Unpublished inscriptions.
1 Di. Total 1.

INDIC PHILOLOGY

For Undergraduates and Graduates:—

- 1a ¹/_{hf}. Professor LANMAN. — Elementary Sanskrit. 1 Gr., 1 So. Total 2.
- 1b ¹/_{hf}. Professor LANMAN. — Elementary Sanskrit (continued). Reading of classical texts (Lanman's Reader). Selections from the epic poems and the fable. Bhagavad-Gītā.
1 So. Total 1.

THE CLASSICS

Primarily for Undergraduates:—

GREEK

- G. Asst. Professor C. N. JACKSON. — Course for Beginners.
1 Gr., 6 Se., 1 Ju., 3 So., 13 Fr., 1 Sp., 1 uC., 3 And. Total 29.
- A. Professor CHASE and Mr. HACK. — Greek Literature. Homer, Iliad, Odyssey; Herodotus. 2 Ju., 6 So., 7 Fr. Total 15.
- B. Professor GULICK, Asst. Professors C. N. JACKSON and POST, and Dr. PHOUTRIDES. — Greek Literature. Plato; Lysias; Elegiac, Iambic, and Lyric Poets; Euripides. Lectures on the History of Greek Literature. 8 So., 24 Fr. Total 32.
- E hf. Dr. PHOUTRIDES. — Greek Prose Composition (first course).
1 Gr., 1 Ju., 1 So., 4 Fr. Total 7.
- 1a hf. Dr. PHOUTRIDES. — Greek Literature. The period of Athenian Supremacy. Herodotus, Aeschylus, Plutarch. 1 Ju., 1 So. Total 2.
- 1b hf. Dr. PHOUTRIDES. — Greek Literature. The Period of Athenian Supremacy. Thucydides, Aristophanes, Euripides.
1 Se., 1 Ju., 3 So., 1 Fr. Total 6.
2. Asst. Professor C. N. JACKSON. — Greek Literature. Aristophanes; Thucydides; Aeschylus; Sophocles.
1 Se., 6 Ju., 11 So., 2 uC. Total 20.
- 3 hf. Mr. HACK. — Greek Prose Composition (second course).
3 Gr., 1 Se., 4 Ju., 2 So., 1 uC. Total 11.

LATIN

- A. Mr. HACK and Dr. PHOUTRIDES. — Latin Literature. Cicero (selected speeches); Virgil. 1 Ju., 2 So., 9 Fr., 1 uC. Total 13.
- B. Professors C. P. PARKER, A. A. HOWARD, and CLIFFORD H. MOORE, and Mr. HACK. — Latin Literature. Livy; Terence; Horace, and other Latin Poets. 2 Se., 7 So., 74 Fr. Total 83.
- E hf. Dr. PHOUTRIDES. — Latin Composition (first course). Translation of English narrative. 2 So., 5 Fr. Total 7.
1. Professor CLIFFORD H. MOORE. — Latin Literature. Tacitus; Catullus; Horace. 1 Se., 3 Ju., 17 So., 1 uC., 1 ocC. Total 23.
- 2a hf. Mr. HACK. — Latin Literature. General View of Latin Poetry.
1 Ju., 1 So., 1 uC. Total 3.
- 3 hf. Professor CLIFFORD H. MOORE. — Latin Composition (second course).
4 Gr., 1 Se., 6 Ju., 2 So., 1 uC. Total 14.

For Undergraduates and Graduates:—

GREEK

6. Professor WEIR SMYTH and Asst. Professor POST. — Greek Literature. Demosthenes, Aeschines, Aeschylus, Sophocles, Aristophanes.
2 Gr., 1 Se., 5 Ju., 2 So. Total 10.
- 7 hf. Asst. Professor C. N. JACKSON. — Greek Prose Composition (third course).
6 Gr., 1 Se., 1 Ju. Total 8.

8. Professor C. P. Parker and Professor GULICK. — Plato (Republic); Aristotle (Ethics); Survey of Greek Philosophy from Thales to Aristotle. 6 Gr., 4 Se., 5 Ju. Total 15.
10. Professor GULICK. — A Survey of Greek Civilization. 18 Se., 20 Ju., 12 So., 1 Fr., 2 ocC. Total 53.

LATIN

6. Professor A. A. HOWARD. — Latin Literature. Suetonius; Pliny; Juvenal; Martial. 2 Gr., 1 Se., 8 Ju., 2 So., 1 uC. Total 14.
- 7 *hf*. Professor C. P. Parker and Professor E. K. RAND. — Latin Composition (third course). 1 Gr., 1 Se., 1 Ju. Total 3.
8. Professors CLIFFORD H. MOORE and E. K. RAND. — Latin Literature. Cicero; Lucretius; Plautus. 7 Gr., 5 Se., 5 Ju., 1 So., 1 ocC. Total 19.
15. Professor E. K. RAND. — Virgil. Studies of his Sources and of his Literary Influence. 8 Gr., 1 Se. Total 9.
12. Professor A. A. Howard. — History of Latin Literature. 3 Gr., 1 Se., 1 Ju., 1 ocC. Total 6.

CLASSICAL PHILOLOGY

Primarily for Graduates: —

- 25 *hf*. Asst. Professor C. N. JACKSON. — Introduction to the Interpretation and Criticism of Classical Authors. History of Classical Studies. 7 Gr. Total 7.
- 166 *hf*. Asst. Professor POST. — Greek Culture in the Sixth Century, B. C. 2 Gr., 1 R. Total 3.
- 133 *hf*. Professor WEIR SMYTH. — Pindar and Bacchylides. 2 Gr. Total 2.
- 157 *hf*. Professor WEIR SMYTH. — The Technique of Greek Tragedy. 5 Gr., 1 Se. Total 6.
- 131 *hf*. Professor GULICK. — Herodotus. 8 Gr. Total 8.
- 26 *hf*. Professor GULICK. — Theocritus, Bion, Moschus, and Herondas. 3 Gr., 1 Se. Total 4.
- 47 *hf*. Professor A. A. HOWARD. — The Comedies of Terence. 8 Gr., 3 Se., 1 ocC. Total 12.
- 70 *hf*. Asst. Professor C. N. JACKSON. — Cicero, Quintilian, Tacitus. 3 Gr. Total 3.
- 142 *hf*. Professor WEIR SMYTH. — History of Later Greek Literature (the Alexandrian and Roman Periods). 3 Gr. Total 3.
- 132 *hf*. Professor CLIFFORD H. MOORE. — The Religion and Worship of the Romans. 9 Gr. Total 9.
- 74 *hf*. Professor ROPES. — The Gospel of Matthew. 2 And., 4 Di., 2 E.T.S., 1 B.U., 1 R. Total 10.
- 176 *hf*. Professor LAKE. — The Historia Ecclesiastica of Eusebius. 2 Di. Total 2.

20. The Seminary of Classical Philology

Professors WEIR SMYTH and E. K. RAND, Directors for 1916-17. — Training in philological criticism and research. Text-criticism and interpretation of Greek and Latin authors: for 1916-17, Aeschylus and the Transmission of the Text of Latin Authors in the Early Middle Ages. 4 Gr. Total 4.

CLASSICAL ARCHAEOLOGY

For Undergraduates and Graduates: —

- 1a ¹/_{hf}. Professor CHASE. — Greek Archaeology.
5 Gr., 2 Se., 2 Ju., 2 So., 1 uC., 1 ocC. Total 13.
- 1b ²/_{hf}. Professor CHASE. — Etruscan and Roman Archaeology.
7 Gr., 2 Se., 2 Ju., 1 So., 1 ocC. Total 13.
- Primarily for Graduates: —*
- 16 ²/_{hf}. Professor CHASE. — Greek Vases. 1 Gr., 1 R. Total 2.

ENGLISH

ENGLISH COMPOSITION AND PUBLIC SPEAKING

Primarily for Undergraduates: —

- A. Professors BRIGGS and GREENOUGH, Associate Professor WINTER, Mr. HERSEY, Drs. LONG and C. E. WHITMORE, and Messrs. HOOD, GORDON, B. G. WHITMORE, GOTT, KEMPTON, H. W. SMITH, and CUTLER. — Rhetoric and English Composition, Oral and Written.
1 Se., 7 So., 553 Fr., 2 Sp., 7 uC. Total 570.
- E. Mr. HOOD. — Special Instruction in English for Foreign Students.
4 Gr., 1 Fr., 1 uC., 13 Sp., 1 Instr. Total 20.
- D¹ or ²/_{hf}. Asst. Professor K. G. T. WEBSTER. English Composition.
2 Ju., 18 So., 29 Fr., 2 ocC., 15 uC., 1 Di. Total 67.
31. Dr. SHEPARD. — English Composition.
1 Se., 5 Ju., 22 So., 1 Sp. Total 29.
6. Mr. PIER. — English Composition.
1 Gr., 24 Se., 45 Ju., 77 So., 8 Fr., 6 uC., 1 And. Total 162.
22. Dr. MAYNADIER, assisted by Mr. COUES. — English Composition.
20 Se., 51 Ju., 23 So., 1 Fr., 8 uC., 2 ocC., 1 Di. Total 106.
- B ¹/_{hf}. Mr. MASTERSON and Mr. SHORT. — Training in Speech. — Elementary Course.
20 Fr. Total 20.
- 10 ¹/_{hf}. Associate Professor WINTER and Messrs. CHENOWETH, MASTERSON, and SHORT. — Public Speaking. Vocal training and platform practice.
1 G.B., 7 Se., 20 Ju., 21 So., 3 Fr., 1 uC. Total 53.
- 10b ¹/_{hf}. Associate Professor WINTER. — Vocal Interpretation of English Prose and Poetry. Studies in selected story and drama; vocal practice.
1 Gr., 7 Se., 11 Ju., 12 So., 1 Fr., 1 ocC., 1 Sp. Total 34.
18. Mr. STONE. — The Forms of Public Address.
15 Se., 23 Ju., 1 So., 1 ocC. Total 40.

For Undergraduates and Graduates: —

12. Asst. Professor COPELAND. — English Composition.
1 Gr., 9 Se., 9 Ju., 5 So., 1 Fr., 1 uC., 5 Sp. Total 31.

Primarily for Graduates: —

67. Professor GREENOUGH. — English Composition.
24 Gr., 1 Se., 1 ocC., 1 Sp. Total 27.
5. Professor BRIGGS. — English Composition (advanced course).
13 Gr., 8 Se., 7 Ju., 3 Sp., 1 L. Total 32.

47. Professor BAKER. — English Composition. The Technique of the Drama. 4 Gr., 2 Se., 4 Sp. Total 10.
- 47a. Professor BAKER. — The Technique of the Drama (advanced course). 5 Gr. Total 5.

ENGLISH LANGUAGE AND LITERATURE

Primarily for Undergraduates: —

28. Professors BRIGGS, BLISS PERRY, KITTREDGE, BAKER, and NEILSON, and Mr. GORDON. — History and Development of English Literature in outline. 22 Se., 48 Ju., 78 So., 113 Fr., 15 uC., 3 Sp., 1 ocC. Total 280.
- 45 ¹/₂f. Asst. Professor COPELAND, assisted by Mr. B. G. WHITMORE. — Lives, Characters, and Times of Men of Letters, English and American. 1 Gr., 17 Se., 48 Ju., 32 So., 2 Fr., 1 Sp., 2 uC., 2 ocC. Total 103.

For Undergraduates and Graduates: —

- 3a ¹/₂f. Asst. Professor K. G. T. WEBSTER. — Anglo-Saxon. 20 Gr., 6 Se., 6 Ju., 1 ocC., 1 Sp. Total 34.
1. Professors NEILSON and F. N. ROBINSON. — Chaucer. 20 Gr., 15 Se., 16 Ju., 6 So., 2 uC., 4 ocC. Total 63.
2. Professor KITTREDGE. — Shakspeare. 22 Gr., 29 Se., 48 Ju., 22 So., 2 Fr., 2 uC., 3 ocC., 2 Sp. Total 130.
- 11a ¹/₂f. Professor NEILSON. — Bacon. 4 Gr., 17 Se., 24 Ju., 21 So., 3 Fr., 2 uC., 2 ocC. Total 73.
- 11b ¹/₂f. Professor NEILSON. — Milton. 10 Gr., 11 Se., 21 Ju., 18 So., 1 Fr., 4 uC., 4 ocC. Total 69.
- 29a ¹/₂f. Dr. MAYNADIER. — The English Novel from Richardson to Scott. 4 Gr., 28 Se., 14 Ju., 1 So., 1 uC., 2 ocC., 1 L. Total 51.
- 29b ¹/₂f. Dr. MAYNADIER. — The English Novel from Dickens to the Present Time. 8 Gr., 24 Se., 18 Ju., 1 ocC., 1 Sp., 1 L. Total 53.
- 48 ¹/₂f. Professor BRIGGS. — Browning. 20 Gr., 9 Se., 4 Ju., 4 So., 2 Fr., 1 uC., 1 ocC., 1 Sp. Total 42.

Primarily for Graduates: —

- 19 ¹/₂f. Professor F. N. ROBINSON. — Historical English Grammar. 5 Gr., 1 Se. Total 6.
- 3b ¹/₂f. Professor KITTREDGE. — Anglo-Saxon. *Béowulf*. 23 Gr., 2 Se., 1 uC., 1 ocC. Total 27.
4. Professors KITTREDGE and F. N. ROBINSON. — Early English. English Literature from 1200 to 1450. *Mätzner's Altenglische Sprachproben*. 22 Gr., 1 uC. Total 23.
- Comparative Literature 26 ¹/₂f. (See Comparative Literature, p. 40.)
14. Professor BAKER, assisted by Mr. RENIERS. — The Drama in England from 1590 to 1642. 26 Gr., 5 Se., 8 Ju., 2 So., 1 uC., 3 ocC., 3 Sp. Total 48.
- 62 ¹/₂f. Professor GREENOUGH. — Studies in Seventeenth Century Prose: Puritanism in English and American Literature. 3 Gr., 6 Se., 2 Ju. Total 11.
- 49 ¹/₂f. Professor NEILSON. — Shakspeare. 18 Gr., 1 Se., 1 ocC. Total 20.

24 ¹/₄. Professor NEILSON. — Studies in the Poets of the Romantic Period.
32 Gr., 10 Se., 4 Ju., 1 uC., 1 ocC., 1 Sp. Total 49.

54 ¹/₄. Professor BLISS PERRY. — Carlyle.
16 Gr., 27 Se., 16 Ju., 1 So., 1 Sp., 2 uC., 2 ocC., 5 And. Total 70.

Courses of Special Study

20. The Instructors in English held themselves ready to assist and advise competent Graduate Students who might propose plans of special study in the English language or literature. Such plans, however, must in each case have met the approval of the Department.

| | | |
|------------------------|-------|----------|
| Professor KITTREDGE. | 2 Gr. | Total 2. |
| Professor BLISS PERRY. | 1 Gr. | Total 1. |
| Professor BAKER. | 3 Gr. | Total 3. |
| Professor GREENOUGH. | 7 Gr. | Total 7. |
| Professor NEILSON. | 8 Gr. | Total 8. |

GERMANIC LANGUAGES AND LITERATURES

GERMAN

Primarily for Undergraduates: —

A. Associate Professor BIERWIRTH, Drs. PETTENGILL, SCHOENEMANN, HERRICK, and CAWLEY, and Messrs. BURKHARD and BREWER. — Elementary Course.

11 Gr., 1 Se., 4 Ju., 15 So., 201 Fr., 4 Sp., 26 uC., 2 And., 1 Di.
Total 265.

B. Dr. HERRICK. — Elementary Course (counting as two courses).
1 Gr., 1 So., 13 Fr., 1 Sp., 1 uC. Total 17.

1a. Asst. Professor W. G. HOWARD, and Drs. PETTENGILL and CAWLEY. — German Prose and Poetry. 1 Gr., 5 Ju., 37 So., 34 Fr., 1 uC. Total 78.

1b. Drs. LIEDER and PETTENGILL. — German Prose. Subjects in History and Biography. 1 Gr., 1 Se., 2 Ju., 15 So., 17 Fr., 1 uC. Total 37.

1c. Dr. LIEDER. — German Scientific Prose. Subjects in Natural Science.
1 Gr., 3 Se., 8 Ju., 19 So., 15 Fr., 1 Sp. Total 47.

F ¹/₄. Dr. HERRICK. — Practice in speaking and writing German (first course).
3 Se., 4 Ju., 2 So., 8 Fr., 3 uC. Total 20.

H ¹/₄. Dr. SCHOENEMANN. — Practice in speaking and writing German (second course).
1 Se., 5 Ju., 1 So., 7 Fr., 2 uC., 1 ocC. Total 17.

2a. Professor VON JAGEMANN and Dr. SCHOENEMANN. — Introduction to German Literature of the Eighteenth and Nineteenth Centuries. Lessing, Goethe, and Schiller. German Ballads and Lyrics.
2 Se., 6 Ju., 12 So., 21 Fr., 2 uC. Total 43.

2b. Professor H. S. WHITE and Dr. LIEDER. — Introduction to German Literature of the Eighteenth and Nineteenth Centuries. Lessing, Goethe, and Schiller. German Ballads and Lyrics.
2 Se., 6 Ju., 11 So., 19 Fr., 1 uC., 1 Di. Total 40.

2c. Professor H. S. WHITE. — German Prose. Subjects in German History. Freytag; Below (Das ältere deutsche Städtewesen und Bürgertum); Richter (Quellenbuch). 2 Se., 5 Ju., 2 So., 12 Fr., 4 uC. Total 25.

3. Associate Professor BIERWIRTH. — Schiller. *Der Dreissigjährige Krieg*; *Wallenstein*; *Maria Stuart*; *Die Jungfrau von Orleans*; *Die Braut von Messina*; *Gedichte*. 3 Se., 5 Ju., 6 So., 1 Fr., 2 uC., 1 ocC. Total 18.
4. Professor WALT. — Goethe. *Works of the Storm and Stress Period*; *autobiographical works*; *poems*; *Egmont*; *Iphigenie*; *Tasso*; *Faust*. 9 Se., 19 Ju., 12 So., 4 Fr., 3 uC., 2 ocC. Total 49.
- 25 ¹/₂f. Dr. SCHOENEMANN. — *History of German Literature in outline*. 21 Se., 23 Ju., 21 So., 3 uC., 1 ocC. Total 69.

For Undergraduates and Graduates: —

- 18 ¹/₂f. Associate Professor BIERWIRTH. — *German Grammar and practice in writing German (advanced course)*. 2 Gr., 4 Se., 2 Ju. Total 8.
8. Professor WALT. — *German Literature in the Twelfth and Thirteenth Centuries*. *Nibelungenlied*; *Kudrun*; *Hartmann*; *Wolfram*; *Walther von der Vogelweide*. *Translation into modern German*. 4 Gr., 3 Se., 1 Ju. Total 8.
- 26a ¹/₂f. Asst. Professor W. G. HOWARD. — *German Literature in the first half of the Nineteenth Century*. *Kleist*; *Uhland*; *Heine*. 5 Gr., 6 Se., 7 Ju., 4 So., 2 uC. Total 24.
- 26b ¹/₂f. Asst. Professor W. G. HOWARD. — *German Literature in the second half of the Nineteenth Century*. *The development of the novel and the drama*. 2 Gr., 5 Se., 4 Ju., 4 So., 2 uC. Total 17.
29. Professor H. S. WHITE. — *The Life and Writings of Richard Wagner*. *Selections from Wagner's musical dramas, including Der Fliegende Holländer, Tannhäuser, Lohengrin, Tristan und Isolde, Die Meistersinger, Der Ring des Nibelungen, and Parsifal, with some study of the legendary background, and with illustrations and elucidations from Wagner's other writings*. 1 Gr., 13 Se., 24 Ju., 7 So., 1 Fr., 2 ocC. Total 48.

Primarily for Graduates: —

- ‡36 ¹/₂f. Associate Professor BIERWIRTH. — *German Lyric Poetry since 1870*. 2 Gr., 1 Ju., 1 R. Total 4.
- ‡12a ¹/₂f. Professor VON JAGEMANN. — *Gothic. Introduction to the Study of Germanic Philology*. *General introduction; phonology*. 24 Gr., 2 R. Total 26.
- ‡12b ¹/₂f. Professor VON JAGEMANN. — *Introduction to the Study of German Philology (continued)*. *Morphology; etymology*. 9 Gr. Total 9.
- ‡15 ¹/₂f. Professor WALT. — *Old High German*. 7 Gr., 1 R. Total 8.
- ‡21. Professor VON JAGEMANN. — *History of the German Language*. 5 Gr. Total 5.

Seminary Courses

- ‡20a ¹/₂f. Professor WALT. — *Goethe in the Period of Storm and Stress*. 7 Gr., 1 Se., 2 R. Total 10.
- ‡20b ¹/₂f. Asst. Professor W. G. HOWARD. — *Aesthetic Problems Connected with Lessing's Laokoon*. 5 Gr. Total 5.
- ‡20c ¹/₂f. Asst. Professor W. G. HOWARD. — *Schiller's Philosophical Essays and Poems*. 6 Gr., 1 Ju. Total 7.

SCANDINAVIAN

For Undergraduates and Graduates: —

1 ¹/₂. Professor SCHOFIELD. — Dano-Norwegian. 2 Gr., 2 Se., 1 Ju. Total 5.
Comparative Literature 13 ¹/₂. (See Comparative Literature, p. 40.)

ROMANCE LANGUAGES AND LITERATURES

FRENCH

Primarily for Undergraduates: —

A. Asst. Professor WHITTEM, Drs. HAWKINS and STRUTHERS, Messrs. LINCOLN, BROWN, LOSS, and PARKER. — Elementary Course. French Prose and Composition.

17 Gr., 4 Se., 2 Ju., 10 So., 98 Fr., 31 uC., 2 ocC., 2 Sp. Total 166.

1. Drs. HAWKINS and STRUTHERS, and Messrs. LINCOLN and ARVIN. — French Prose and Poetry. Translation from French into English.

1 G.B., 13 Ju., 45 So., 57 Fr., 11 uC. Total 127.

2. Asst. Professor WHITTEM, and Messrs. G. B. WESTON, MERCIER, LINCOLN, LEAVITT, LOSS, GIFFORD, and LITTLE. — French Prose and Poetry. Corneille; Racine; Molière; Victor Hugo; Alfred de Musset; Balzac; Flaubert; Daudet; Zola. Composition.

2 Se., 19 Ju., 66 So., 183 Fr., 7 uC. Total 277.

3. Mr. RAICHE. — French Composition (elementary course).

7 Se., 7 Ju., 40 So., 10 Fr., 1 uC., 1 ocC. Total 66.

4 ¹/₂. Mr. MERCIER and Mr. RAICHE. — French Composition (intermediate course).

9 Se., 16 Ju., 9 So., 1 Fr., 3 ocC. Total 38.

For Undergraduates and Graduates: —

5 ¹/₂. Mr. MERCIER and Mr. RAICHE. — French Composition (advanced course).

6 Se., 9 Ju., 4 So. Total 19.

6. Professors GRANDGENT and J. D. M. FORD, Asst. Professor ALLARD, Dr. HAWKINS, and Messrs. MERCIER and RAICHE. — General View of French Literature.

10 Se., 21 Ju., 48 So., 9 Fr., 1 uC. Total 89.

7. Asst. Professor ALLARD. — French Literature in the Nineteenth Century.

3 Gr., 12 Se., 19 Ju., 2 So., 1 Sp. Total 37.

9. Professor WRIGHT. — French Literature in the Seventeenth Century.

3 Gr., 12 Se., 9 Ju., 7 So., 1 Fr., 1 ocC. Total 33.

16. Asst. Professor ALLARD. — The Comedy of Manners in France from the end of the Eighteenth Century to the Present Time.

1 Gr., 1 Se., 4 Ju., 8 So. Total 14.

Comparative Literature 9. (See Comparative Literature, p. 40.)

18 ¹/₂. Professor BABBITT. — Chateaubriand and his Influence.

1 Gr., 1 Ju., 1 Instr. Total 3.

Primarily for Graduates: —

14. Professors SHELTON and FORD. — French Literature in the Fourteenth and Fifteenth Centuries.

6 Gr., 1 R. Total 7.

21. Professor WRIGHT. — French Literature in the Sixteenth Century. Origins of French Classicism.

2 Gr., 3 Se., 1 ocC. Total 6.

- 23 *hf.* Professor WRIGHT. — Studies in the French Drama of the Seventeenth Century. Corneille, Racine, Molière. 3 Gr., 2 Se., 1 Ju. Total 6.
- 25 ³/₄ *hf.* Asst. Professor WHITTEM. — La Fontaine and the Fable in France. 2 Gr., 1 Se., 1 Ju. Total 4.

ITALIAN

Primarily for Undergraduates: —

1. Mr. G. B. WESTON. — Italian Grammar, reading, and composition. Modern Italian stories and plays. 2 Se., 6 Ju., 3 So., 5 Fr. Total 16.

For Undergraduates and Graduates: —

5. Mr. G. B. WESTON. — Modern Italian Literature. 1 Gr., 2 Se., 5 Ju., 3 So., 1 Sp. Total 12.
10. Professor GRANDGENT. — The Works of Dante, particularly the Vita Nuova and the Divine Comedy. 14 Gr., 1 Se., 3 Ju., 1 Sp. Total 19.

SPANISH

Primarily for Undergraduates: —

1. Asst. Professor WHITTEM, Mr. LINCOLN, and Messrs. RIVERA, BROWN, LEAVITT, and PARKER. — Spanish Grammar, reading, and composition. Modern Spanish Novels and Plays. 23 Se., 37 Ju., 68 So., 87 Fr., 2 Sp., 9 uC., 1 ocC., 1 G.B. Total 228.
- 7 ¹/₄ *hf.* Asst. Professor WHITTEM. — Spanish Composition (elementary course). 16 Se., 18 Ju., 6 So., 3 ocC. Total 43.

For Undergraduates and Graduates: —

- 8 ³/₄ *hf.* Mr. RIVERA. — Spanish Composition and Conversation (advanced course). 2 Gr., 1 G.B., 13 Se., 13 Ju., 7 So., 1 ocC. Total 37.
- 9 *hf.* Mr. HUSBANDS (University of Santiago de Chile). Spanish Composition and Conversation. 1 Gr., 2 Se., 2 Ju., 1 Fr. Total 6.
- 4 *hf.* Professor J. D. M. FORD. — General View of Spanish Literature. 3 Gr., 3 Se., 12 Ju., 1 So., 1 uC. Total 20.
5. Professor J. D. M. FORD, Asst. Professor WHITTEM, and Mr. RIVERA. — Spanish Prose and Poetry of the Eighteenth and Nineteenth Centuries. 5 Gr., 4 Se., 13 Ju., 18 So., 1 Fr., 2 uC., 2 ocC., 1 Sp. Total 46.
2. Professor J. D. M. FORD and Asst. Professor WHITTEM. — Spanish Literature of the Sixteenth and Seventeenth Centuries. Cervantes; Lope de Vega; Calderón. 2 Gr., 1 G.B., 9 Se., 18 Ju., 8 So., 2 Fr., 2 ocC. Total 42.

Primarily for Graduates: —

13. Professor J. D. M. FORD. — Early Spanish. The Poem of the Cid. Spanish Literature to the Sixteenth Century. 13 Gr., 1 Se., 1 Ju., 3 R. Total 18.

ROMANCE PHILOLOGY

Primarily for Graduates: —

3. Professor SHELDON. — Old French. Phonology and inflections. The oldest texts. La Chanson de Roland; Chrétien de Troyes; Aucassin et Nicolette. 26 Gr., 1 Se. Total 27.
14. Professor GRANDGENT. — Provençal. Language and Literature, with selections from the poetry of the Troubadours. 10 Gr., 1 R. Total 11.

- ‡7. Professor SHELDON. — Anglo-French and the French Element in English. 1 Gr., 1 R. Total 2.

Courses of Special Study

- ‡20. The Instructors in Romance Languages held themselves ready to assist and advise competent Graduate Students in plans of special study, linguistic or literary. 2 Gr. Total 2.

- 20a hf. Asst. Professor ALLARD. — Investigation of Special Topics in the French Drama of the Nineteenth Century. 1 Gr. Total 1.

‡Seminary

Students and instructors met once in two weeks, for the discussion of theses and for research in special fields. During 1916-17, special topics were discussed under the direction of Professor SHELDON.

CELTIC

Primarily for Graduates: —

- 1 hf. Professor F. N. ROBINSON. — Old Irish. Grammar and interpretation of texts. Thurneysen's *Handbuch des Altirischen*. General introduction to Celtic philology. 1 Gr. Total 1.

- 3 hf. Professor F. N. ROBINSON. — Old and Middle Welsh. Grammar and interpretation of texts. The *Mabinogion* and other selections from the *Red Book of Hergest*. Lectures on early Welsh Literature. 5 Gr. Total 5.

Course of Special Study

20. Professor F. N. ROBINSON. — Investigation of Special Subjects in Celtic Philology. 1 Gr. Total 1.

SLAVIC LANGUAGES

For Undergraduates and Graduates: —

- 1a. Professor WIENER. — Russian. 4 Gr., 1 Ju., 1 So. Total 6.

- 2a. Professor WIENER. — Polish. 2 Ju. Total 2.

- 4 hf. Professor WIENER. — Introduction to the History of Russian Literature. 1 Gr., 9 Se., 9 Ju., 3 So., 1 Fr., 2 Sp., 1 L. Total 26.

- 5 hf. Professor WIENER. — Tolstoy and his Time. 1 Gr., 18 Se., 14 Jr., 2 So., 1 Fr., 2 Sp. Total 38.

COMPARATIVE LITERATURE

Primarily for Undergraduates: —

1. Professor WENDELL and Mr. SCHENCK. — European Literature. General survey. 17 Se., 36 Ju., 30 So., 2 Fr., 7 uC., 1 Di. Total 93.

For Undergraduates and Graduates: —

- 6a hf. Professor SCHOFIELD, assisted by Dr. SHEPARD. — The Literary History of England and its Relations to that of the Continent from the Beginning to Chaucer. 2 Gr., 14 Se., 7 Ju., 3 So., 2 Fr., 6 ocC. Total 34.

- 6b hf. Professor SCHOFIELD, assisted by Dr. SHEPARD. — The Literary History of England and its Relations to that of the Continent from Chaucer to Elizabeth. 8 Gr., 9 Se., 15 Ju., 13 So., 4 ocC., 1 Sp. Total 50.

9. Professor BABBITT. — Rousseau and his Influence.
5 Gr., 6 Se., 1 Ju., 1 So. Total 13.
- 32 ¹/₂h. Professor BLISS PERRY, assisted by Dr. BAUM. — Lyric Poetry. An introduction to the study of poetics, with special attention to the nature and forms of lyric verse.
23 Gr., 50 Se., 45 Ju., 31 So., 3 Fr., 3 Sp., 4 uC., 4 ocC. Total 163.
- 19 ¹/₂h. Professor BAKER. — The Forms of the Drama.
31 Gr., 27 Se., 43 Ju., 40 So., 5 Fr., 9 uC., 2 ocC., 6 Sp. Total 163.
- 13 ¹/₂h. Professor SCHOFIELD. — Danish and Norwegian Dramatists and their Relations to European Literature, with special attention to Holberg, Oehlenschläger, Bjørnsen, and Ibsen. 1 Gr., 1 Se., 1 Ju. Total 3.
- Primarily for Graduates: —*
22. Professor BABBITT. — Literary Criticism since the Sixteenth Century.
11 Gr., 1 Se., 1 Ju., 1 So. Total 14.
- 26 ¹/₂h. Professor KITTREDGE. — The Early English Metrical Romances.
15 Gr. Total 15.
- 27 ¹/₂h. Professor SCHOFIELD. — English Literature of the Fourteenth and Fifteenth Centuries and its Relations to Continental Literature.
3 Gr., 1 ocC. Total 4.
- 35 ¹/₂h. Asst. Professor K. G. T. WEBSTER. — Life in the Middle Ages as illustrated by Contemporary Literature. 8 Gr. Total 8.

Courses of Special Study

20. Professor BABBITT. — Original Investigation in Special Topics.
1 Gr. Total 1.
- 20h. Professor J. D. M. FORD. — The Relations of Spanish Literature to European Literature in other Tongues. 1 Gr. Total 1.
- 20k. Professor WIENER. — The Relations of Slavic Literatures to European Literature in other Tongues. 1 Gr. Total 1.
- 20l. Professor J. D. M. FORD. — The Relations of Latin-American Literature to other Literatures. 1 Gr. Total 1.

COMPARATIVE PHILOLOGY

Primarily for Graduates: —

- 12a h. Professor GRANDGENT. — General Introduction to Linguistic Science. Phonetics. The pronunciation of English, French, German, and Latin.
10 Gr., 1 Se., 1 Ju., 2 R. Total 14.

THE FINE ARTS

Primarily for Undergraduates: —

- 1a. Asst. Professor POPE and Mr. MOWER, assisted by Mr. ROGERS. — Principles of Drawing and Painting, with elementary practice.
2 Gr., 2 Se., 3 Ju., 8 So., 24 Fr., 1 Sp., 2 uC. Total 42.
- 1b h. Mr. MOWER. — Elementary Drawing. 2 Ju., 3 So., 1 ocC. Total 6.

For Undergraduates and Graduates: —

1c ¹/₄f. Professor CHASE, assisted by Mr. M. B. GULICK. — The History of Ancient Art.

1 Gr., 20 Se., 23 Ju., 34 So., 3 Fr., 2 uC., 1 oC., 1 Sp. Total 85.

1d ¹/₄f. Asst. Professor EDGELL, assisted by Mr. M. B. GULICK. — The History of Mediaeval, Renaissance, and Modern Art.

2 Gr., 16 Se., 25 Ju., 42 So., 5 Fr., 2 uC., 1 oC., 1 Sp., 1 And. Total 95.

1f. Professor PRAY, assisted by Messrs. POND and STEELE. — Principles of Landscape Architecture, illustrated by a study of examples.

11 Se., 23 Ju., 2 So., 2 oC., 6 S.L.A. Total 44.

2a. Asst. Professor POPE and Mr. MOWER. — Freehand Drawing.

2 Se., 5 Ju., 9 So., 3 Fr. Total 19.

2b. Asst. Professor POPE and Mr. MOWER. — Freehand Drawing (second course).

6 Se., 4 Ju., 2 So., 3 oC. Total 15.

2c. Mr. MOWER. — Drawing and Painting (advanced course).

9 Se., 6 Ju., 6 So., 1 Fr., 3 oC. Total 25.

2f ¹/₄f. Mr. FROST. — Perspective. The theory of perspective and its application to architectural subjects.

3 Se., 1 So., 1 Fr., 6 S.A. Total 11.

2g. Mr. FROST, with occasional criticism by Professor H. L. WARREN. — The Forms of Ancient and of Early Mediaeval Architecture, with special reference to the Classic Styles.

4 Se., 1 So., 10 S.A. Total 15.

3a. Professor H. L. WARREN and Mr. FROST. — Technical and Historical Development of the Ancient and Early Mediaeval Styles of Architecture.

9 G.S., 3 Se., 4 Ju., 5 So., 1 uC. Total 22.

3c ¹/₄f. Professor CHASE. — The Athenian Acropolis.

2 Se., 4 Ju. Total 6.

4a ¹/₄f. Professor H. L. WARREN and Mr. FROST. — Technical and Historical Development of the Gothic Styles of Architecture.

9 S.A., 6 Se., 2 Ju. Total 17.

5a ¹/₄f. Professor H. L. WARREN and Mr. FROST. — Technical and Historical Development of Renaissance and Modern Architecture.

9 G.S., 4 Se., 2 Ju., 1 oC. Total 16.

5c ¹/₄f. Asst. Professor EDGELL. — The Central Italian Painters of the Renaissance.

2 Gr., 6 Se., 8 Ju., 1 So. Total 17.

5e ¹/₄f. Mr. WINSHIP. — The History of the Printed Book.

7 Se., 2 Ju., 1 Sp. Total 10.

5f ¹/₄f. Mr. CARRINGTON, assisted by Mr. SCHUCHMANN. — The History and Principles of Engraving.

3 Gr., 7 Se. Total 10.

5g ¹/₄f. Mr. E. W. FORBES. — Methods and Processes of Italian Painting.

1 Gr., 1 Se., 2 Ju., 1 So., 1 oC. Total 6.

5t ¹/₄f. Asst. Professor EDGELL. — The History of Flemish Painting.

2 Gr., 3 Se., 8 Ju., 2 oC. Total 15.

8a ¹/₄f. Asst. Professor POPE, assisted by Mr. ROGERS. — Theory of Design.

1 Gr., 6 Se., 3 Ju., 3 So., 1 oC., 1 uC., 1 L. Total 16.

8c¹. Dr. ROSS. — On Design in Drawing and Painting.

2 Gr., 1 S.A., 3 Se., 3 Ju., 2 oC. Total 11.

- 8d³/₄f. Asst. Professor POPE. — The Theory of Design. 1 Se., 1 ocC. Total 2.
- 9a. Asst. Professor POST. — The Art and Culture of Italy in the Middle Ages and the Renaissance. 4 Gr., 4 Se., 6 Ju., 3 So., 2 ocC. Total 19.
- 9c³/₄f. Mr. FROST. — The History and Development of the House.
8 Se., 6 Ju., 11 So., 2 uC., 1 ocC. Total 28.
- 10a. Professor H. L. WARREN and Mr. FROST, with the coöperation in parts of the course of Asst. Professor HUBBARD. — Principles of Architectural Design and their Application. Elements of Form in Architecture and the Allied Arts. 1 Se., 1 ocC. Total 2.
- 10b. Mr. THOMAS, with occasional criticism by Associate Professor HUMPHREYS. — Elementary Architectural Design. Elements of Architectural Form. The Orders. Introductory Problems in Architectural Design.
9 S.A., 4 Se. Total 13.

Primarily for Graduates: —

20. Dr. ROSS. — Ancient Chinese Art. 1 Gr. Total 1.

Courses of Special Study

- 20a³/₄f. Mr. CARRINGTON. — History of Engraving. 1 Se. Total 1.
- 20f. Asst. Professor POST, Mr. E. W. FORBES, and Asst. Professor EDGELL. — History of Italian Art. 1 Gr. Total 1.
- 20g³/₄f. Asst. Professor POPE. — History of Painting. 2 Gr., 2 Se. Total 4.

MUSIC

For Undergraduates and Graduates: —

1. Asst. Professor HEILMAN and Mr. BALLANTINE. — Harmony, the Grammar of Music.
2 Se., 5 Ju., 2 So., 18 Fr., 2 uC., 1 Sp. Total 30.
- 1a. Dr. DAVISON. — Advanced Harmony and Harmonic Analysis.
3 Ju., 6 So., 1 Fr., 1 Sp. Total 11.
2. Dr. DAVISON. — Counterpoint. 1 Se., 5 Ju., 1 So. Total 7.
- 2a^h/_f. Dr. DAVISON. — Vocal Composition. Part-writing, strict and free, together with analysis of choral works of the great composers.
3 Se., 1 Ju., 1 So., 1 Sp. Total 6.
3. Mr. HILL. — History of Music from the time of Bach to the present day. 1 G.B., 13 Se., 27 Ju., 21 So. Total 62.
4. Associate Professor SPALDING and Mr. BALLANTINE. — The Appreciation of Music; analytical study of masterpieces from the point of view of the listener.
1 Gr., 20 Se., 47 Ju., 38 So., 6 Fr., 1 uC., 2 ocC., 1 Sp. Total 116.

Primarily for Graduates: —

- 4b^h/_f. Mr. HILL. — D'Indy, Fauré, Debussy. A critical study of their contributions to modern music. 1 Gr., 3 Se., 4 Ju., 3 So. Total 11.
5. Associate Professor SPALDING. — Canon and Fugue.
4 Se., 2 So. Total 6.
- †6. Mr. HILL. — Instrumentation. 1 Gr., 3 Se., 1 So. Total 5.
20. Advanced Work in Original Composition. 3 Gr., 1 Se. Total 4.

GROUP II

HISTORY OF SCIENCE

1. Asst. Professor HENDERSON, assisted by Dr. WILBUR. — History of the Physical and Biological Sciences (introductory course).
1 Gr., 14 Se., 13 Ju., 3 So., 2 ocC., 1 B. I. Total 34.

PHYSICAL SCIENCES

PHYSICS

Primarily for Undergraduates: —

- B. Professor HALL and Dr. NUSBAUM. — Elementary Physics.
2 Se., 8 Ju., 19 So., 41 Fr., 4 uC. Total 74.
- C. Professor SABINE, Asst. Professor H. N. DAVIS, Dr. HARRY CLARK, Dr. D. L. WEBSTER, and Mr. BRINSMADE. — Experimental Physics. — Mechanics, Sound, Heat, Light, Magnetism, and Electricity.
2 Gr., 6 Se., 9 Ju., 55 So., 70 Fr., 10 uC., 1 ocC., 1 Sp. Total 154.
1. Professor HALL, assisted by Dr. GARDNER. — General Descriptive Physics. 1 Gr., 2 Se., 19 Ju., 16 So., 20 Fr., 3 uC., 1 Sp. Total 62.

For Undergraduates and Graduates: —

- 2¹/₂f. Asst. Professor LYMAN and Mr. BECKER. — Light.
4 Gr., 3 Se. Total 7.
3. Dr. CHAFFEE, assisted by Mr. C. G. SMITH. — Electrostatics, Electrodynamics, and parts of Electromagnetism.
1 Gr., 4 Se., 1 Ju., 4 So. Total 10.
- 12a ¹/₂f. Asst. Professor LYMAN. — Electric Conduction in Gases and Radioactivity, with special reference to Modern Theories of the Constitution of Matter.
5 Se., 6 Ju., 1 So., 1 Fr. Total 13.
- 17 ¹/₂f. Asst. Professor G. W. PIERCE. — Electric Waves and their Application to Wireless Telegraphy.
5 Se., 1 Ju. Total 6.
- 4a ¹/₂f. Dr. CHAFFEE. — The Theory of Transient Phenomena and Alternating Currents.
3 Se., 1 Ju. Total 4.
- 4b ¹/₂f. Asst. Professor G. W. PIERCE and Dr. CHAFFEE. — Maxwell's Electromagnetic Theory. Electric Oscillations and Electric Waves.
2 Gr., 3 Se. 1 ocC. Total 6.
- 4c ¹/₂f. Asst. Professor G. W. PIERCE and Dr. CHAFFEE. — Radiotelegraphy.
1 Gr., 1 Se. Total 2.
5. Professor SABINE and Asst. Professor LYMAN. — Light.
6 Gr., 3 Se. Total 9.
- 6a ¹/₂f. Professor HALL. — Elements of Thermodynamics.
3 Gr., 4 Se., 2 Ju. Total 9.
- 6b ¹/₂f. Professor HALL. — Modern Developments and Applications of Thermodynamics.
6 Gr., 2 Se. Total 8.
15. Asst. Professor G. W. PIERCE. — Radiation and the Quantum Theory.
1 Gr. Total 1.

Primarily for Graduates: —

- †7 ¹/₂f. Professor HALL. — The Kinetic Theory of Gases. 6 Gr. Total 6.
 13 ¹/₂f. Dr. D. L. WEBSTER. — X-Ray Phenomena. 4 Gr., 1 Se. Total 5.
 †9. Asst. Professor BRIDGMAN. — The Mathematical Theory of Electricity and Magnetism. 6 Gr. Total 6.

Courses of Research

- 20b. Asst. Professor LYMAN. — Light and Sound. 1 Gr. Total 1.
 20c. Asst. Professor G. W. PIERCE. — Radiation and Electromagnetic Waves. 4 Gr. Total 4.
 20d. Asst. Professor DUANE. — Radioactivity. 1 Gr. Total 1.
 20e. Asst. Professor LYMAN. — Light of Short Wave-Lengths. 4 Gr. Total 4.
 20f. Asst. Professor H. N. DAVIS. — Heat. 1 Gr. Total 1.
 20g. Asst. Professor BRIDGMAN. — Phenomena at High Pressures. 2 Gr. Total 2.

ENGINEERING SCIENCES

Primarily for Undergraduates: —

3. Associate Professor KENNEDY, and Messrs. NINDE and THOROGOOD. — Mechanical Drawing. Use of instruments. Projections and descriptive geometry. Freehand sketching of machine parts.
 1 G.B., 4 Se., 6 Ju., 46 So., 10 Fr., 4 uC., 1 ocC. Total 72.
 3b. Mr. FROST. — Descriptive Geometry, Stereotomy, Shades and Shadows, 3 S.A., 3 Se., 1 Ju. Total 7.
 5a ¹/₂f. Asst. Professor H. N. DAVIS, and Messrs. NINDE and THOROGOOD. — Mechanics. 26 Ju., 1 ocC. Total 27.
 6a ¹/₂f. Associate Professor KENNEDY, and Messrs. NINDE and THOROGOOD. — Mechanical Drawing (second course). 6 Se., 14 Ju., 1 ocC. Total 21.
 6b ¹/₂f. Associate Professor KENNEDY, and Messrs. NINDE and THOROGOOD. — Mechanism. Kinematics as applied to machine elements.
 13 Se., 23 Ju., 1 So. Total 37.
 7a ¹/₂f. Associate Professor HUNTINGTON, and Messrs. NINDE and THOROGOOD. — Mechanics. Dynamics of Moving Bodies; Friction; Efficiency of Machines. 23 Ju., 1 ocC. Total 24.
 7b ¹/₂f. Associate Professor HUNTINGTON, and Messrs. NINDE and THOROGOOD. — Mechanics. Analytical and Graphical Statics; Strength of Materials. 3 Se., 13 Ju., 1 ocC. Total 17.
 8. Professors MARKS and CLIFFORD, assisted by Messrs. NINDE and THOROGOOD and Mr. DAWES. — Power — its Generation and Utilisation. 7 Se., 17 Ju., 3 So., 1 ocC. Total 28.
 10 ¹/₂f. Professor SAUVEUR, assisted by Dr. LANGENBERG. — Principles of Metallurgy. 1 G.B., 11 Se., 7 Ju., 3 So., 1 ocC. Total 23.

ASTRONOMY

Primarily for Undergraduates: —

1. Professor WILLSON and Mr. C. E. KELLEY. — Descriptive Astronomy. 10 Se., 20 Ju., 19 So., 6 Fr., 1 uC. Total 56.

2a ¹/₂f. Professor WILLSON. — Practical Astronomy. Application of Astronomy to navigation and exploration. Time, latitude, and longitude by sextant; azimuth. 4 Se., 3 Ju., 3 So., 1 ocC. Total 11.

2a ²/₃f. Dr. STETSON. — Practical Astronomy. Application of Astronomy to navigation and exploration. Time, latitude and longitude by sextant; azimuth. 4 Se., 3 Ju., 4 So., 2 Fr., 1 uC., 1 L. Total 15.

For Undergraduates and Graduates: —

2b ¹/₂f. Professor WILLSON. — Practical Astronomy. Determination of time with the portable transit. Longitude by moon culminations. 1 Gr., 1 So. Total 2.

3a ¹/₂f. Professor WILLSON. — Practical Astronomy. Determination of latitude with the zenith telescope. Star catalogues; reduction from mean to apparent place. 1 Gr., 1 Ju. Total 2.

Primarily for Graduates: —

5. Professor WILLSON. — Practical Astronomy. Special subjects. 1 Gr., 1 G.B., 1 So., 1 ocC. Total 4.

CHEMISTRY

Primarily for Undergraduates: —

A. Professor KOHLER and Mr. LARSON, assisted by Messrs. BAILEY, DINSMORE, DOUTCHETT, PHILLIPS, SILVER, L. T. SMITH, VAIL, O. J. WALKER. — Elementary Chemistry.

3 Gr., 5 Se., 20 Ju., 50 So., 127 Fr., 2 Sp., 6 uC. Total 213.

1. Asst. Professor LAMB, assisted by Mr. FAIRHALL, and Messrs. SILVER, L. T. SMITH, VAIL, O. J. WALKER. — Inorganic Chemistry. 2 Gr., 1 Se., 8 Ju., 11 So., 91 Fr., 2 uC., 1 ocC. Total 116.

2 ¹/₂f. Dr. CONANT, assisted by Mr. MACDONALD. — Organic Chemistry (elementary course).

1 Gr., 9 Se., 25 Ju., 89 So., 9 Fr., 7 uC., 2 ocC., 6 Sp. Total 148.

22 ¹/₂f. Dr. CONANT, assisted by Messrs. MACDONALD and NEGUS. — Experimental Organic Chemistry (elementary course).

1 Gr., 3 Se., 12 Ju., 19 So., 2 Fr., 1 uC., 3 Sp. Total 41.

This course was repeated in the second half-year.

2 Se., 3 Ju., 13 So., 1 Fr., 6 uC., 1 ocC., 3 Sp. Total 29.

3. Asst. Professor G. S. FORBES, assisted by Messrs. HUDSON and CLASSEN. — Qualitative Analysis.

1 Gr., 3 Se., 23 Ju., 53 So., 4 uC., 1 ocC. Total 85.

8 ¹/₂f. Asst. Professor G. S. FORBES, assisted by Mr. COOMBS. — Elementary Theoretical and Physical Chemistry, including the Historical Development of Chemical Theory.

2 Gr., 4 Se., 14 Ju., 51 So., 3 Fr., 7 uC., 1 ocC. Total 82.

23 ¹/₂f. (formerly Mining 3 ¹/₂f.). Asst. Professor RAYMER. — Fire Assaying. Chiefly laboratory work. 2 Se., 1 Ju. Total 3.

24 ¹/₂f. (formerly Metallurgy 4 ¹/₂f.). Professor C. H. WHITE. — Metallurgical Chemistry. The analysis of ores. Chiefly laboratory work.

2 Se., 2 Ju. Total 4.

For Undergraduates and Graduates: —

4. Professor BAXTER, assisted by Mr. LARSON and Mr. C. H. WILSON. — Quantitative Analysis, gravimetric and volumetric. Chiefly laboratory work. 1 Gr., 17 Se., 30 Ju., 4 So., 2 uC., 1 ocC. Total 55.
- 9 ¹/₂f. Professor BAXTER, assisted by Mr. HODGES. — Advanced Quantitative Analysis. 14 Gr., 4 Se., 3 Ju. Total 21.
- 10 ¹/₂f. Professor BAXTER, assisted by Mr. HODGES. — Gas Analysis. Chiefly laboratory work. 13 Gr., 5 Se., 3 Ju. Total 21.
5. Professor KOHLER, assisted by Messrs. ENGELBRECHT and BACON. — The Carbon Compounds. 2 G.B., 17 Gr., 14 Se., 22 Ju., 2 So., 1 ocC. Total 58.
- 15 ¹/₂f. Asst. Professor HENDERSON, assisted by Dr. REDFIELD. — General Biological Chemistry. 4 Gr., 6 Se., 3 Ju., 4 So., 2 uC., 1 Sp. Total 20.
- 25 ¹/₂f. Asst. Professor HENDERSON, assisted by Mr. VENABLE. — Experimental Biological Chemistry. Chiefly laboratory work. 1 Gr., 1 Se., 1 So., 1 ocC. Total 4.
11. Asst. Professor JONES. — Industrial Chemistry. 8 Gr., 32 Se., 11 Ju., 1 So., 1 Sp. Total 53.
- 19 ¹/₂f. Asst. Professor JONES and Mr. M. C. WHIPPLE. — Technical Analysis. Chiefly laboratory work. 3 Se. Total 3.

Primarily for Graduates: —

6. Professors RICHARDS and BAXTER, and Asst. Professors HENDERSON, LAMB, G. S. FORBES and JONES, assisted by Mr. DEAN. — Physical Chemistry. 11 Gr., 15 Se., 2 Ju. Total 28.
- 12 ¹/₂f. Asst. Professor G. S. FORBES, assisted by Mr. DEAN. — Photochemistry, including the use of Optical Instruments in Chemistry. 5 Gr., 2 Se. Total 7.
- 7 ¹/₂f. Asst. Professor LAMB. — Electrochemistry. 6 Gr., 5 Se. Total 11.
- 14c ¹/₂f. Asst. Professor JONES. — Colloid Chemistry. 7 Gr. Total 7.
- 16 ¹/₂f. Dr. CONANT. — The General Reactions of Organic Chemistry. 7 Gr., 4 Se. Total 11.
- 17 ¹/₂f. Dr. CONANT. — Structural Organic Chemistry (advanced course). 1 Gr., 1 Se., 4 Ju. Total 6.

Courses of Research

- 20a. Professor RICHARDS. — Inorganic Chemistry, including Determination of Atomic Weights. 1 Gr. Total 1.
- 20c. Professor KOHLER. — Organic Chemistry. 11 Gr., 1 Se. Total 12.
- 20d. Professor RICHARDS. — Physical Chemistry, including Electrochemistry. 2 Gr. Total 2.
- 20e. Asst. Professor LAMB. — Physical Chemistry, including Electrochemistry. 6 Gr. Total 6.
- 20f. Professor BAXTER. — Inorganic Chemistry, including Determination of Atomic Weights. 4 Gr. Total 4.
- 20g. Professor BAXTER. — Physical Chemistry. Stoichiometry. 1 Gr. Total 1.

| | | | |
|------|---|-------|----------|
| 20h. | Ast. Professor G. S. FORBES. — Physical Chemistry, including Electro-chemistry. | 4 Gr. | Total 4. |
| 20i. | Ast. Professor JONES. — Physical Chemistry. | 2 Gr. | Total 2. |
| 20k. | Ast. Professor HENDERSON. — Biological Chemistry. | 7 Gr. | Total 7. |
| 20l. | Dr. CONANT. — Organic Chemistry. | 3 Gr. | Total 3. |

BOTANY

Primarily for Undergraduates: —

| | | | |
|----------------------------------|---|-----------|--|
| 1 ¹ / ₂ f. | Professor OSTERHOUT, and Messrs. RABER, BLAKE, SAX, and MARTIN. — Botany. | | |
| | 1 Gr., 5 Se., 11 Ju., 24 So., 44 Fr., 2 Sp., 3 uC., 1 ocC. | Total 91. | |
| 2 ¹ / ₂ f. | Professor THAXTER, assisted by Mr. MEIER. — Introduction to Cryptogamic Botany. | | |
| | 2 Gr., 1 Se., 5 Ju., 3 So., 1 uC., 1 ocC., 1 Sp. | Total 14. | |

For Undergraduates and Graduates: —

| | | | |
|-----------------------------------|---|--------------|----------|
| 3 ¹ / ₂ f. | Professor JEFFREY, assisted by Mr. POOLE. — Morphology in Relation to Evolution, Plant Production, Reproduction and Genetics. | | |
| | 2 Gr., 1 Se., 3 Ju., 2 So., 1 uC. | Total 9. | |
| 5b ¹ / ₂ f. | Professor JEFFREY, assisted by Mr. POOLE. — Special Morphology of the Higher Vascular Plants. The Conifers, Gnetales and Angiosperms. | | |
| | 3 Gr., 2 Ju., 1 uC. | Total 6. | |
| 6 ¹ / ₂ f. | Professor THAXTER, assisted by Mr. MEIER. — The Bacteria, Mycetozoa, and Higher Fungi. | | |
| | 9 Gr., 1 Se., 2 Ju., 2 So., 1 uC., 1 B.I. | Total 16. | |
| 7. | Professor FERNALD, assisted by Mr. SEYMOUR. — Classification and Distribution of Flowering Plants, with special reference to the Flora of New England and the Maritime Provinces. | 5 Gr., 1 uC. | Total 6. |
| 9 ¹ / ₂ f. | Professor OSTERHOUT, assisted by Mr. FENN. — Plant Physiology. Respiration, Growth, Reproduction, and Irritability. | | |
| | 5 Gr., 1 Se., 1 uC., 5 B.I. | Total 12. | |
| 10. | Professor FERNALD. — Classification and Distribution of Flowering Plants. Advanced Studies upon Special Topics. | 2 Gr. | Total 2. |
| 11 ¹ / ₂ f. | Professor EAST. — The Principles of Genetics. | 7 B.I. | Total 7. |

Primarily for Graduates: —

| | | | |
|-----------------------------------|--|----------|--|
| 14 ¹ / ₂ f. | Professor JEFFREY. — Photomicrography and the Technique of the Microscope. | | |
| | 3 Gr., 2 Ju., 1 uC. | Total 6. | |

Courses of Research

| | | | |
|------|--|--------------|----------|
| 20a. | Professor JEFFREY. — Static and Experimental Morphology. | | |
| | | 3 Gr. | Total 3. |
| 20b. | Professors FARLOW and THAXTER. — Structure and Development of Cryptogams. | | |
| | | 4 Gr., 1 Se. | Total 5. |
| 20c. | Professor B. L. ROBINSON. — Taxonomy of Phanerogams. | | |
| | | 1 Gr. | Total 1. |
| 20d. | Professor FERNALD. — Geographic Botany. | 3 Gr. | Total 3. |
| 20e. | Professor OSTERHOUT. — Plant Physiology. | 3 Gr. | Total 3. |
| 20f. | Professor EAST. — Principles of Variation and Heredity, and their Application to Plant Breeding. | 4 B.I. | Total 4. |

ZOOLOGY

GENERAL ZOOLOGY

Primarily for Undergraduates:—

- 1 ¹/₂f. Professor G. H. PARKER, Mr. MINNICH, and Mr. HECHT. — Zoölogy.
 2 Gr., 17 Se., 31 Ju., 57 So., 59 Fr., 10 Sp., 2 ocC., 8 uC., 4 S.T.M. Total 190.
- 3 ¹/₂f. Asst. Professor H. W. RAND, assisted by Mr. J. M. D. OLMSTED. —
 Comparative Anatomy of Vertebrates.
 6 Gr., 8 Se., 14 Ju., 10 So., 8 Fr., 3 uC., 4 Sp., 1 B.I., 1 Instr. Total 55.

For Undergraduates and Graduates:—

- 4 ¹/₂f. Asst. Professor H. W. RAND, assisted by Mr. J. M. D. OLMSTED. —
 General Histology. 5 Gr., 4 Se., 7 Ju., 5 So., 1 Sp., 1 B.I. Total 23.
- 5a ¹/₂f. Professor MARK and Mr. WALTON. — Embryology of Vertebrates.
 Early stages of development.
 4 Gr., 4 Se., 2 Ju., 4 So., 1 uC., 1 ocC., 1 Instr. Total 17.
- 8 ¹/₂f. (formerly 2 ¹/₂f.). Professor CASTLE and Mr. DUNN. — Genetics and
 Eugenics. The reproduction of animals; the origin of new races; the
 influence of heredity and environment; applications to animal breeding
 and human society.
 1 Gr., 17 Se., 19 Ju., 9 So., 1 Fr., 6 uC., 2 ocC., 3 B.I. Total 58.

Primarily for Graduates:—

- 7a ¹/₂f. Professor WHEELER and Asst. Professor BRUES. — Morphology and
 Classification of Insects. 1 Gr., 1 Ju., 1 uC. Total 3.
- 7b ¹/₂f. Professor WHEELER and Asst. Professor BRUES. — Habits and Dis-
 tribution of Insects. 1 Gr., 1 Se., 2 uC., 1 B.I. Total 5.
- 10 ¹/₂f. Professor CASTLE. — Genetics (advanced course).
 2 Gr., 1 Se., 5 B.I. Total 8.
- †14b ¹/₂f. Professor G. H. PARKER. — The Structure and Functions of Central
 Nervous Organs. 11 Gr., 2 Se., 1 Ju., 1 So., 3 R., 2 ocC. Total 20.
- †17 ¹/₂f. Asst. Professor H. W. RAND. — Experimental Morphology. The
 form-determining factors in development and growth.
 2 Gr., 1 R., 3 B.I. Total 6.

Courses of Research

- 20a. Professor MARK. — Embryology. 2 Gr. Total 2.
- 20b. Professor MARK. — Cytology, with special reference to Heredity.
 1 Gr. Total 1.
- 20c. Professor G. H. PARKER. — The Structural and Functional Basis of
 Animal Reactions. 7 Gr. Total 7.
- 20e. Asst. Professor H. W. RAND. — Comparative Anatomy of Vertebrates.
 2 Gr., 1 Se., 1 Ju. Total 4.
- 20g. Asst. Professor H. W. RAND. — Experimental Morphology.
 2 Gr. Total 2.
- Special Course. — Dr. BARBOUR. 1 Se. Total 1.

APPLIED ZOOLOGY

Primarily for Graduates:—

- 7c ¹/₂f. Asst. Professor BRUES. — Practical Entomology. 1 Ju. Total 1.

Courses of Research

- 20d. Professor CASTLE. — Variation, Heredity, and the Principles of Animal Breeding. 1 Se. Total 1.
- 20f. Professor WHEELER and Asst. Professor BRUES. — Economic Entomology. 5 B.I. Total 5.

PALAEONTOLOGY (see Geology, page 50)

For Undergraduates and Graduates: —

- 1 ¹/₂f. Associate Professor RAYMOND. — Palaeontology (introductory course).
2 Gr., 1 Se., 2 Ju., 1 So., 2 Fr., 1 ocC. Total 9.

Primarily for Graduates: —

20. Associate Professor RAYMOND. — Palaeontological Research.
3 Se. Total 3.

HYGIENE AND SANITATION

Primarily for Undergraduates: —

- 1 ¹/₂f. Professor LEE. — Hygiene.
58 Se., 69 Ju., 100 So., 9 Fr., 3 Sp., 12 uC., 7 ocC. Total 258.

For Undergraduates and Graduates: —

- 2 ¹/₂f. Mr. M. C. WHIPPLE. — Elementary Bacteriology (formerly Engineering Sciences 9).
2 Se., 2 Ju. Total 4.

Research Course

- 20b. Mr. M. C. WHIPPLE. — Bacteriology. 1 Se. Total 1.

GEOLOGY AND GEOGRAPHY

GENERAL GEOLOGY

Primarily for Undergraduates: —

- 4 ¹/₂f. Professor DALY, Dr. HAYNES, and Messrs. McLAUGHLIN and T. H. CLARK. — Introduction to Geology.

5 Gr., 20 Se., 47 Ju., 63 So., 61 Fr., 6 uC., 2 ocC. Total 204.

- 5 ¹/₂f. Associate Professors WOODWORTH and RAYMOND, assisted by Mr. SAVILLE. — Historical Geology.

1 Gr., 2 Se., 12 Ju., 14 So., 13 Fr., 1 ocC. Total 43.

For Undergraduates and Graduates: —

- 16 ¹/₂f. Associate Professor WOODWORTH, assisted by Mr. WIGGLESWORTH. — Geology of North America. 1 Gr., 6 Se., 2 Ju. Total 9.

- 14 ¹/₂f. Associate Professor RAYMOND. — Stratigraphy. 1 Gr., 1 Se. Total 2.

12. Associate Professor WOODWORTH. — Geological Surveying.
1 Gr., 1 Se. Total 2.

- 19 ¹/₂f. Associate Professor WOODWORTH. — Seismology.
1 Gr., 2 Se., 1 Ju. Total 4.

- 9 ¹/₂f. Professor DALY. — Geology of the Igneous Rocks.
5 Gr., 1 M.I.T. Total 6.

Primarily for Graduates: —

- 20c. Professor DALY. — Research in Physical Geology. 1 Gr. Total 1.
 20e. Associate Professor WOODWORTH. — Research in Structural Geology.
 1 Gr. Total 1.

ECONOMIC GEOLOGY

For Undergraduates and Graduates: —

10. Professors GRATON and H. L. SMYTH. — Ore-Deposits. Origin and Occurrence. 3 Gr., 3 Se., 1 Ju., 2 So. Total 9.
 18. Professors GRATON and PALACHE, with lectures by Professors WOLFF and JEFFREY. — Economic Geology of Non-Metalliferous Substances.
 1 Gr., 3 Se., 3 Ju. Total 7.

Primarily for Graduates: —

- 20b. Professors H. L. SMYTH and GRATON. — Economic Geology (research course). 7 Gr. Total 7.

PALAEONTOLOGY

1 ¹/₂f. and 20. (See Zoölogy, page 49.)

GEOGRAPHY

Primarily for Undergraduates: —

- 1 ¹/₂f. Professor ATWOOD, assisted by Mr. FERGUSON. — Physiography (introductory course).
 26 Se., 55 Ju., 47 So., 33 Fr., 6 uC., 4 ocC. Total 171.

For Undergraduates and Graduates: —

- 3 ¹/₂f. Dr. TOWER. — Geography of South America.
 1 G.B., 1 Se., 5 Ju., 1 So., 2 ocC., 1 R. Total 11.
 6 ¹/₂f. Professor ATWOOD, assisted by Mr. FERGUSON. — Geography of North America. 1 Gr., 1 Se., 7 Ju., 10 So., 2 Fr., 1 ocC. Total 22.
 14 ¹/₂f. Professor RAOUL BLANCHARD (University of Grenoble). — Special Studies in the Geography of Europe.
 2 Gr., 1 Se., 6 Ju., 1 So., 1 ocC., 1 R. Total 12.
 7 ¹/₂f. Professor ATWOOD. — Geography of Europe.
 2 Se., 8 Ju., 1 ocC. Total 11.
 11 ¹/₂f. Dr. TOWER. — Economic Geography.
 1 Gr., 3 Se., 7 Ju., 4 So., 2 ocC., 1 uC. Total 18.
 15 ¹/₂f. Professor ATWOOD. — Natural Resources in the United States and their Conservation. 13 Se., 38 Ju., 4 So., 3 ocC., 1 uC., 1 Sp. Total 60.
Primarily for Graduates: —
 20a. Professor ATWOOD. — Special problems in Regional Geography (research in field or library). 3 Gr. Total 3.

METEOROLOGY AND CLIMATOLOGY

Primarily for Undergraduates: —

- 1 ¹/₂f. Professor WARD. — Elementary Meteorology. The Weather and Weather Forecasting.
 1 Gr., 2 Se., 9 Ju., 15 So., 22 Fr., 3 ocC. Total 52.

For Undergraduates and Graduates: —

- 2 ¹/₂f. Professor WARD. — Climatology (general course). Climate and Man.
 1 Se., 1 Ju., 1 So., 1 ocC. Total 4.

3 ¹/₂h. Professor WARD. — Climatology of North America.

2 Gr., 2 Ju., 1 ocC. Total 5.

6 ¹/₂h. Professor McADIE. — Instrumental Meteorology.

1 Gr., 1 Ju. Total 2.

Primarily for Graduates: —

20. Professor WARD. — Climatology (research course). 2 Gr. Total 2.

20a. Professor McADIE. — Meteorology (research course). 2 Gr. Total 2.

MINERALOGY AND PETROGRAPHY

Primarily for Undergraduates: —

2. Professor PALACHE, assisted by Mr. WANDTKE. — Mineralogy (including Crystallography, Physical and Chemical Mineralogy, and Descriptive Mineralogy). 1 Gr., 6 Se., 7 Ju., 3 So., 1 ocC. Total 18.

For Undergraduates and Graduates: —

10 ¹/₂h. Professor PALACHE. — Advanced Mineralogy. 3 Gr. Total 3.

12. Professor WOLFF, assisted by Mr. WANDTKE. — Petrography.

1 Gr., 1 Se. Total 2.

Primarily for Graduates: —

14 ¹/₂h. Professor WOLFF. — Advanced Petrography. 4 Gr. Total 4.

GROUP III

HISTORY

INTRODUCTORY

Primarily for Undergraduates: —

1. Professor HASKINS, assisted by Messrs. NEWHALL, J. K. WRIGHT, ARAGON, and J. V. FULLER; with lectures by Professors G. F. MOORE, COOLIDGE, and GAY, Asst. Professors JOHNSTON, MERRIMAN, and LORD. — European History from the Fall of the Roman Empire to the Present Time. 3 Ju., 80 So., 243 Fr., 5 Sp., 20 uC. Total 351.

I. ANCIENT HISTORY

For Undergraduates and Graduates: —

4. Professor FERGUSON. — History of Greece to the Roman Conquest. 10 Gr., 5 Se., 8 Ju., 4 So., 2 uC. Total 29.

37 ¹/₂h. Professor FERGUSON. — Hellenistic Culture: its Character and Spread. 15 Gr., 5 Se., 1 Ju., 5 So., 1 uC., 1 Sp., 3 Di. Total 31.

Primarily for Graduates: —

35. Professor FERGUSON. — Roman Constitutional History.

6 Gr., 1 Se. Total 7.

Course of Research

20i. Professor FERGUSON. — Topics in Greek and Roman History.

2 Gr. Total 2.

II. MEDIAEVAL HISTORY

For Undergraduates and Graduates: —

5 ¹/₂h. Professor EMERTON. — The Church in the Middle Ages from Charlemagne to Dante. 5 Gr., 1 Ju., 2 ocC., 1 And., 5 Di. Total 14.

8 ¹/₂f. Professor HASKINS. — History of France to 1328.
7 Gr., 1 Ju., 1 So., 1 Di. Total 10.

9. Professor McILWAIN. — Constitutional History of England to the Sixteenth Century. 10 Gr., 4 Se., 2 Ju., 2 So., 1 uC., 1 Sp. Total 20.

Primarily for Graduates: —

25 ¹/₂f. Professor HASKINS. — Historical Bibliography and Criticism.
11 Gr. Total 11.

26 ¹/₂f. Professor EMERTON. — History of Christian Thought, considered in its relation to the prevailing philosophy of each period from the earliest time to the Eighteenth Century. 1 Gr., 2 And., 11 Di. Total 14.

21 ¹/₂f. Professor HASKINS. — Introduction to the Sources of Mediaeval History. 4 Gr., 1 ocC., 1 Di. Total 6.

Courses of Research

20a ¹/₂f. Professor EMERTON. — Topics and hours by appointment. 1 Di. Total 1.

20c. Professor HASKINS. — Mediaeval Institutions. 3 Gr. Total 3.

III. MODERN HISTORY

Primarily for Undergraduates: —

2. Mr. LASKI. — European History from the Close of the Middle Ages to the Outbreak of the French Revolution.
2 Se., 13 Ju., 2 So., 3 uC., 1 ocC. Total 21.

30a ¹/₂f. Asst. Professor LORD, assisted by Mr. R. F. KELLEY. — Continental Europe since 1815.
1 Gr., 24 Se., 27 Ju., 23 So., 3 Fr., 2 uC., 3 ocC. Total 83.

30b ¹/₂f. Professor FAY (Smith College), assisted by Mr. R. F. KELLEY. — The Expansion of Europe since 1815.
1 Gr., 15 Se., 15 Ju., 16 So., 3 ocC., 1 Sp. Total 51.

For Undergraduates and Graduates: —

11. Asst. Professor MERRIMAN. — History of England during the Tudor and Stuart Periods.
11 Gr., 6 Se., 8 Ju., 4 So., 1 Fr., 2 ocC. Total 32.

12. Asst. Professor JOHNSTON, assisted by Mr. McCURDY. — The History of England from 1688 to the Present.
6 Gr., 24 Se., 25 Ju., 10 So., 1 uC., 1 And. Total 67.

55. Asst. Professor JOHNSTON and Professor GAY. — Introduction to Military History and Theory. 2 Gr., 2 Se., 9 Ju., 3 So. Total 16.

14. Asst. Professor JOHNSTON. — The French Revolution and Napoleon I.
2 Gr., 12 Se., 16 Ju., 16 So., 1 ocC. Total 47.

16 ¹/₂f. Asst. Professor MERRIMAN. — History of the Spanish Empire.
5 Gr., 4 Se., 6 Ju., 1 ocC. Total 16.

15. Asst. Professor LORD. — History of Russia.
6 Gr., 1 Se., 3 Ju. Total 10.

19 ¹/₂f. Professor COOLIDGE. — The Eastern Question.
5 Gr., 6 Se., 4 Ju., 2 So., 1 ocC., 1 Sp., 1 N.T.I. Total 20.

Primarily for Graduates: —

- 24a ¹/₄f. Professor EDWARD C. MOORE. — The History of the Christian Life and Institutions in Europe since the Reformation.
4 Gr., 2 Ju., 1 ocC., 3 Di., 3 And. Total 13.
27. Asst. Professor LORD. — Topics in Modern European History; Bismarck's Foreign Policy, 1862-71. 5 Gr. Total 5.
29. Professor COOLIDGE. — Selected Topics in the History of the Nineteenth Century. 4 Gr. Total 4.

Courses of Research

- 20d. Professor COOLIDGE and Asst. Professor LORD. — History of Continental Europe and of Asia in the Eighteenth and Nineteenth Centuries. 4 Gr. Total 4.
- 20g. Asst. Professor MERRIMAN. — Topics in the History of Spain in the Fifteenth and Sixteenth Centuries. 2 Gr. Total 2.

IV. AMERICAN HISTORY

Primarily for Undergraduates: —

INTRODUCTORY

- 32a ¹/₄f. Dr. MORISON, assisted by Mr. ROTH. — American History: The Formation of the Union, 1760-1829.
35 Se., 86 Ju., 65 So., 2 Fr., 4 uC., 5 ocC., 2 Sp. Total 199.
- 32b ¹/₄f. Professor CHANNING and Mr. MAYO. — American History: The Development of the Nation, 1830 to the Present Time.
6 Gr., 54 Se., 112 Ju., 77 So., 1 Fr., 8 uC., 3 ocC., 1 Sp. Total 262.

For Undergraduates and Graduates: —

- 10a ¹/₄f. Professor CHANNING. — American History to 1760.
7 Gr., 34 Se., 31 Ju., 10 So., 2 uC., 8 ocC., 1 And. Total 93.
- 33 ¹/₄f. Dr. MORISON. — The History of Massachusetts from 1780 to the Present Time. 1 Gr., 13 Se., 5 Ju., 2 ocC. Total 21.
- 17c ¹/₄f. Professor FARRAND (Yale University). — The American Nation: a Study of the Expansion of the United States.
10 Gr., 11 Se., 8 Ju., 2 So., 1 ocC. Total 32.
- 43 ¹/₄f. Professor HART. — The Anti-Slavery Movement and Abraham Lincoln.
9 Gr., 14 Se., 10 Ju., 3 So., 2 ocC., 1 uC., 1 Sp. Total 40.
- 56 ¹/₄f. Dr. KLEIN. — The History of South America: the History of the chief South American Countries, with Special Reference to the Argentine Republic, and a Comparison of its Constitutional Development with that of the United States.
2 Gr., 4 Se., 10 Ju., 12 So., 2 Fr., 4 ocC., 4 uC., 1 L., 1 Sp. Total 40.
- 57 ¹/₄f. Dr. KLEIN. — Recent Commercial History of Latin America.
1 Gr., 2 G.B., 8 Se., 13 Ju., 9 So., 2 uC., 4 ocC. Total 39.
- 59 ¹/₄f. Dr. KLEIN. — History of Mexico, Central America, and the West Indies. 3 Gr., 4 Se., 2 So., 2 Ju. Total 11.
- 61 ¹/₄f. Dr. KLEIN. — Latin-American Trade Problems. 4 G.B. Total 4.

Primarily for Graduates: —

- 23a ¹/_{hf}. Professor CHANNING. — Selected Topics in the Historical Development of American Institutions: Political and Social History, 1820 to 1850. 10 Gr. Total 10.
- 23b ¹/_{hf}. Professor CHANNING. — Selected Topics in the Historical Development of American Institutions: Political and Social History since 1865. 10 Gr. Total 10.
- 23c ¹/_{hf}. Professor CHANNING. — The Literature of American History. 16 Gr. Total 16.
- ‡46 ¹/_{hf}. Mr. W. C. FORD. — Manuscript Materials of American History. 5 Gr., 2 R. Total 7.

Courses of Research

- 20e. Professor CHANNING. — American History. 4 Gr. Total 4.
- 20h. Dr. KLEIN. — Topics in the History and Present Conditions of Latin America. 2 Gr. Total 2.
- 20k. Dr. MORISON. — Topics in United States History. 1 Gr. Total 1.
- 20n. Professor FARRAND (Yale University). — American History. 1 Ju. Total 1.
- Economics 2a ¹/_{hf}., 2b ¹/_{hf}., 20d. (See Economics, pp. 56, 58.)

VI. CHURCH HISTORY

History 5, 24a, 26, and 20a are courses in Church History. In addition to these, the following courses in Andover Theological Seminary (offered Primarily to Graduates) were open to students in Harvard University: —

- A1. Professor PLATNER. — History of the Church in Outline. 2 Ju., 10 And., 2 Di. Total 14.
- A3. Professor PLATNER. — Christian Institutions, historically and comparatively considered. 1 ocC., 6 And., 3 Di. Total 10.
- A5 ¹/_{hf}. Professor PLATNER. — History of the Church in America. 1 And. Total 1.

VII. HISTORY OF RELIGIONS

Primarily for Graduates: —

- 2 ¹/_{hf}. Professor G. F. MOORE. — History of Religions in Outline. 7 Gr., 2 Ju., 3 So., 3 E.T.S., 7 And., 14 Di., 2 N.T.I. Total 38.
9. Professor LAKE. — Beginnings of Christianity. 2 So., 3 And., 7 Di., 1 B.U. Total 13.

Courses of Research

20. Professor G. F. MOORE directed the researches of competent students. 1 Gr., 2 And., 2 Di. Total 5.
- 20a. Professors G. F. MOORE, ROPES, and LAKE. — The Foundation of Early Christian Traditions. 4 Di. Total 4.

GOVERNMENT

I. MODERN GOVERNMENT

Primarily for Undergraduates:—

1. Professor MUNRO, assisted by Messrs. BELL, COLLIER, RICHARDS, B. G. WHITMORE, CROSS, and COCHRAN.—Constitutional Government.
1 Se., 9 Ju., 91 So., 235 Fr., 2 Sp., 28 uC. Total 366.

For Undergraduates and Graduates:—

9. Asst. Professor HOLCOMBE.—Government of American States.
3 Gr., 18 Se., 42 Ju., 32 So., 1 uC., 1 ocC. Total 97.
17. Professor MUNRO and Mr. HANFORD.—Municipal Government.
6 Gr., 5 Se., 27 Ju., 11 So., 1 Sp., 1 uC. Total 51.
- 8 ¹/₂f. Asst. Professor YEOMANS.—Government of the French Republic and of the German Empire. 4 Gr., 6 Se., 3 Ju., 7 So., 1 ocC. Total 21.
10. Professor McILWAIN.—Government of England.
6 Gr., 5 Se. Total 11.
24. Professor DUPRIEZ (University of Louvain).—Comparative Administration,—France, Prussia, Italy, Belgium. 2 Se. Total 2.
31. Professor WHIFFLE.—Municipal Administration.
1 G.B., 4 Se., 5 Ju., 1 So., 9 H.O. Total 20.
- 35 ¹/₂f. Professors A. B. HART, G. C. WHIFFLE, and CUNNINGHAM, and Asst. Professor JOHNSTON.—Military Administration—Railroads, War, Navy Department, Sanitation.
2 Gr., 9 Se., 14 Ju., 10 So., 3 Fr., 3 ocC., 1 uC. Total 42.

Primarily for Graduates:—

- ‡12. Professor A. B. HART.—American Political System, National, State, and Municipal.
12 Gr., 6 Se., 11 Ju., 1 So., 3 uC., 1 Sp., 2 R. Total 36.
- 27 ¹/₂f. Professor DUPRIEZ (University of Louvain).—Executive Power in Central Europe.—Responsibility; Relations to City Government.
2 Gr., 7 Se., 1 Ju., 1 So., 2 ocC. Total 13.

Courses of Research

- 20a. Professor MUNRO.—Selected Topics in Municipal Government.
6 Gr., 1 Se. Total 7.
- 20d. Asst. Professor HOLCOMBE.—Selected Topics in State Government.
2 Gr., 1 Se. Total 3.
- 20e. Professor A. B. HART.—American Institutions,—National, State, Municipal, and Diplomatic. 1 Gr. Total 1.

II. LAW AND POLITICAL THEORY

For Undergraduates and Graduates:—

- 6b ¹/₂f. Asst. Professor HOLCOMBE.—Political Theories of Modern Times.
1 G.B., 12 Gr., 19 Se., 23 Ju., 9 So., 2 uC. Total 66.

Primarily for Graduates:—

- ‡6a ¹/₂f. Asst. Professor HOLCOMBE.—History of Political Theories.
12 Gr., 11 Se., 9 Ju., 2 So., 1 ocC., 4 R. Total 39.

- 11 ¹/₂f. Professor A. B. HART. — Federal Government: History, Theory, and Systems. 3 Gr., 11 Se., 2 Ju. Total 16.
19. Mr. McLAIN. — American Constitutional Law. 7 Gr., 4 Se. Total 11.

III. INTERNATIONAL LAW AND DIPLOMACY

For Undergraduates and Graduates: —

4. Professor G. G. WILSON, assisted by Dr. P. Q. WRIGHT. — Elements of International Law. 7 Gr., 22 Se., 39 Ju., 12 So., 1 uC., 1 ocC., 1 L. Total 83.

Primarily for Graduates: —

15. Professor G. G. WILSON. — International Law as administered by the Courts and as observed in International Negotiations. 11 Gr., 4 Se., 1 L. Total 16.

ECONOMICS

Primarily for Undergraduates: —

- A. Asst. Professor DAY; Dr. J. S. DAVIS and Mr. P. G. WRIGHT, Dr. BURBANK, and Messrs. MONROE, LINCOLN, F. E. RICHTER, and VAN SICKLE. With lectures on selected topics by Professor TAUSSIG. — Principles of Economics. 17 Se., 120 Ju., 232 So., 13 Fr., 4 Sp., 39 uC., 6 ocC. Total 431.

For Undergraduates and Graduates: —

- 1a ¹/₂f. Dr. J. S. DAVIS, assisted by Messrs. COX, CREEKPAUM, and CLARK. — Accounting. 44 Se., 75 Ju., 4 So., 5 uC., 2 ocC. Total 131.
- 1b ¹/₂f. Dr. J. S. DAVIS, assisted by Messrs. COX and CREEKPAUM. — Statistics. 1 Gr., 26 Se., 43 Ju., 6 uC., 1 ocC. Total 77.
- 2a ¹/₂f. Professor GAY, assisted by Dr. A. H. COLE and Mr. RYDER. — European Industry and Commerce in the Nineteenth Century. 20 Gr., 11 Se., 31 Ju., 13 So., 10 uC. Total 85.
- 2b ¹/₂f. Professor GAY, assisted by Dr. A. H. COLE and Mr. RYDER. — Economic History of the United States. 25 Gr., 16 Se., 61 Ju., 18 So., 1 Sp., 14 uC. Total 135.
3. Asst. Professor ANDERSON, assisted by Mr. SILBERLING. — Money, Banking, and Commercial Crises. 4 Gr., 27 Se., 45 Ju., 3 So., 3 uC., 4 ocC. Total 86.
- 4a ¹/₂f. Professor RIPLEY, assisted by Mr. KING. — Economics of Transportation. 1 Gr., 1 G.B., 53 Se., 65 Ju., 4 So., 3 uC., 1 ocC. Total 128.
- 4b ¹/₂f. Professor RIPLEY, assisted by Mr. KING. — Economics of Corporations. 8 Gr., 41 Se., 65 Ju., 6 So., 1 Fr., 4 uC., 2 ocC., 1 Sp. Total 128.
- 5a ¹/₂f. Professor BULLOCK. — Public Finance, exclusive of Taxation. 1 Gr., 13 Se., 22 Ju., 2 So., 5 uC., 1 L. Total 44.
- 5b ¹/₂f. Dr. BURBANK. — The Theory and Methods of Taxation. 3 Gr., 14 Se., 23 Ju., 1 So., 2 uC. Total 43.
- 6a ¹/₂f. Professor RIPLEY, assisted by Mr. LEWIS. — Trade-Unionism and Allied Problems. 3 Gr., 20 Se., 22 Ju., 1 uC., 3 ocC. Total 49.
- 7a ¹/₂f. Professor TAUSSIG. — Economic Theory. 2 Gr., 1 G.B., 13 Se., 12 Ju., 3 uC. Total 31.

7b ²/₄f. Professor CARVER. — The Single Tax, Socialism, Anarchism.

7 Gr., 31 Se., 30 Ju., 1 So., 2 uC., 4 ocC., 2 Sp. Total 77.

8. Professor CARVER, assisted by Mr. DICKINSON. — Principles of Sociology. 5 Gr., 10 Se., 32 Ju., 1 Sp., 3 uC., 1 ocC., 1 And. Total 53.

9 ¹/₄f. Professor CARVER, assisted by Mr. HALL. — Economics of Agriculture. 3 Gr., 17 Se., 13 Ju., 1 uC., 2 ocC. Total 36.

Primarily for Graduates:—

ECONOMIC THEORY AND METHOD

†11. Asst. Professor DAY. — Economic Theory.

21 Gr., 1 G.B., 2 Se., 1 Ju., 1 And., 1 Di., 1 R. Total 28.

†12 ¹/₄f. Professor CARVER. — The Distribution of Wealth.

2 Gr., 2 G.B., 2 Ju., 2 R. Total 8.

†13. Professor PERSONS (Colorado College). — Statistics: Theory, Method, and Practice. 6 Gr., 1 Di. Total 7.

†14. Professor BULLOCK. — History and Literature of Economics to the year 1848. 13 Gr. Total 13.

†15. Professor GAY. — German and French Economists of the Nineteenth Century. 4 Gr. Total 4.

17. Asst. Professor ANDERSON. — Economic Theory: Value and Related Problems. 5 Gr. Total 5.

18a ¹/₄f. Asst. Professor ANDERSON. — Analytical Sociology.

3 Gr., 1 Se., 1 Ju., 1 And., 1 Di. Total 7.

18b ²/₄f. Asst. Professor ANDERSON. — Historical Sociology.

6 Gr., 1 Ju., 1 And., 1 Di. Total 9.

APPLIED ECONOMICS

†31. Professor BULLOCK. — Public Finance. 9 Gr., 1 Se. Total 10.

†32 ²/₄f. Professor CARVER. — Economics of Agriculture.

3 Gr., 2 Ju., 1 ocC., 1 Sp. Total 7.

†33 ²/₄f. Professor PERSONS (Colorado College). — International Trade and Tariff Problems. 9 Gr., 2 Ju., 1 uC., 1 L. Total 13.

†34. Professor RIPLEY. — Problems of Labor.

4 Gr., 1 Ju., 1 N.T.I., 2 R. Total 8.

35 ¹/₄f. Professor PERSONS (Colorado College). The Theory of Business Cycles. 7 Gr., 1 Se., 1 uC. Total 9.

SOCIAL SCIENCES

Anthropology 12 ²/₄f. (See Anthropology, p. 60.)

Social Ethics 2 ²/₄f., 4 ¹/₄f., 5 ¹/₄f., 6 ²/₄f., 7 ²/₄f., 15 ¹/₄f., 20, 20b. (See Social Ethics, p. 63.) Courses in Social Ethics belong to Group IV.

COURSES OF RESEARCH IN ECONOMICS

20a. Professor TAUSSIG. — Economic Theory, also International Trade and Tariff Problems. 2 Gr. Total 2.

20b. Professor CARVER. — Economic Theory, also Economics of Agriculture. 2 Gr. Total 2.

20c. Professor RIPLEY. — Principles of Corporation Finance. 1 Gr. Total 1.

- 20d. Professor GAY. — Economic History. 5 Gr., 1 Se. Total 6.
 20e. Professor BULLOCK. — American Taxation and Finance. 9 Gr. Total 9.
 20i. Asst. Professor ANDERSON. — Sociology; Economic Theory. 1 Gr. Total 1.

The Seminary in Economics

Meetings were held by instructors and advanced students for the presentation of the results of investigation.

EDUCATION

For Undergraduates and Graduates: —

- A ¹/₂f. Asst. Professor HOLMES. — Principles and Problems of Modern Education. Contemporary Educational Conditions (introductory course). 9 Gr., 13 Se., 18 Ju., 4 So., 1 Sp., 1 uC., 1 ocC. Total 47.
1. Professor ERNEST C. MOORE. — The History of Education. 10 Gr., 9 Se., 9 Ju., 3 So., 2 uC., 2 ocC. Total 35.
5. Professor ERNEST C. MOORE. — Philosophy of Education. Fundamental Problems of Educational Theory. 10 Gr., 5 Se., 10 Ju., 3 So., 1 ocC., 2 Sp., 1 N.T.I. Total 32.
- 7 ¹/₂f. Asst. Professor DEARBORN. — Educational Psychology. 20 Gr., 2 Se., 6 Ju., 7 So., 2 ocC. Total 37.
- 10 ¹/₂f. Professor ERNEST C. MOORE. — Methods of Study and their Application. 5 Gr., 3 Se., 2 Ju., 1 ocC., 1 Sp. Total 12.
- 14 ¹/₂f. Asst. Professor G. E. JOHNSON. — Child Development. Stages and characteristics in the development of children's interests, activities, and abilities. The methods and results of child study in their bearing on teaching and the programme of studies, and on home training. 5 Gr., 2 Se., 12 Ju., 3 So., 1 uC., 1 ocC., 1 Sp., 2 And. Total 27.

Primarily for Graduates: —

- ‡3a ¹/₂f. Professor HANUS. — Organization and Management of State and City Schools and School Systems. Duties and opportunities of superintendents and principals. Visits to schools, with special reference to the duties of supervising officers. Experimental study of problems in school administration. 16 Gr., 1 Se., 1 Sp., 1 N.T.I., 2 R. Total 21.
- 3b. Asst. Professor INGLIS. — Principles of Secondary Education. Visits to schools. 17 Gr., 10 Se., 4 Ju., 1 ocC., 2 Sp. Total 34.
- ‡3c ¹/₂f. Asst. Professor HOLMES. — Elementary Education. Programmes of study, methods, school and class management. Visits to schools. 7 Gr., 1 Ju., 4 R. Total 12.
- 9 ¹/₂f. Asst. Professor INGLIS. — Teaching. Teaching under supervision in the schools of Newton, Brookline, Arlington, Medford, Somerville, Belmont, Watertown, and Cambridge. Reading, and an essay on the teaching of a chosen subject. 4 Gr., 8 Se., 1 Ju., 1 ocC. Total 14.
- 15 ¹/₂f. Asst. Professor INGLIS. — The Reorganization of Secondary Education. Problems of theory and practice involved in the reorganization of secondary schools. The Junior High School and other plans for the readjustment of secondary education. 6 Gr., 2 Sp., 4 R. Total 12.

‡12a ¹/_{hf}. Asst. Professor G. E. JOHNSON and Mr. JOSEPH LEE. — Play in Education. General course for Teachers, Principals, Superintendents of Schools, Social Workers, and others.

7 Gr., 1 Se., 1 N.T.I., 4 R. Total 13.

‡12b ¹/_{hf}. Asst. Professor G. E. JOHNSON and Mr. JOSEPH LEE. — The Administration and Conduct of Play and Recreation in School Systems. — The Problem of Athletics in School and College.

1 Se., 1 ocC., 4 R. Total 6.

‡16a ¹/_{hf}. Dr. J. M. BREWER. — Principles of Vocational Guidance.

4 Gr., 2 Se., 1 Sp., 4 R. Total 11.

‡16b ¹/_{hf}. Dr. J. M. BREWER. — Problems in Vocational Guidance.

4 Gr., 1 Se., 1 Sp. Total 6.

Seminary Courses

‡20. Special Research in Education. — Under the direction of an instructor of the Division.

7 Gr. Total 7.

‡20a. Professor HANUS and Professor ERNEST C. MOORE. — Problems in Educational Administration.

15 Gr., 2 Sp., 2 R. Total 19.

‡20b ¹/_{hf}. Asst. Professor HOLMES. — Problems of the Elementary School. Constructive studies in teaching and administration in the elementary school.

6 Gr., 3 Sp. Total 9.

‡20c ¹/_{hf}. Asst. Professor DEARBORN. — Problems in Mental and Physical Development. — Studies in Child Development; with Special Reference to Cases of Deficient, Retarded, and Psychopathic Children in School.

7 Gr., 1 Sp., 6 R. Total 14.

‡20d ¹/_{hf}. Asst. Professor DEARBORN. — Research in Educational Psychology.

1 Gr. Total 1.

‡20e. Professor ERNEST C. MOORE. — Topics in the History of Education.

7 Gr., 3 R. Total 10.

‡20f. Asst. Professor INGLIS. — Problems in Secondary Education.

2 Gr., 2 Sp. Total 4.

‡20h. Asst. Professor G. E. JOHNSON and Mr. JOSEPH LEE. — Play and Recreation.

5 Gr., 1 R. Total 6.

‡20i. Dr. J. M. BREWER. — Vocational Guidance — Principles and Practice.

2 Gr., 2 Sp., 2 R. Total 6.

‡20j ¹/_{hf}. Professor DUPRIEZ (University of Louvain). Education in France and in Neighboring Countries.

1 Gr., 6 Se., 5 Ju., 3 So., 1 ocC., 1 Sp. Total 17.

ANTHROPOLOGY

Primarily for Undergraduates: —

1. Asst. Professor TOZZER and Dr. HOOTON, assisted by Mr. GUTHE. — General Anthropology.

7 Se., 25 Ju., 13 So., 4 Fr., 1 uC., 1 ocC., 1 Sp. Total 52.

For Undergraduates and Graduates: —

5. Professor DIXON. — American Archaeology and Ethnography.

2 Gr., 3 Se., 2 Ju., 1 Di. Total 8.

2. Dr. HOOTON. — Physical Anthropology.
3 Gr., 4 Se., 1 Ju., 1 Fr., 2 ocC. Total 11.
- 4 ¹/₂f. Dr. HOOTON. — Prehistoric European Archaeology and European Ethnography.
2 Gr., 1 Ju., 1 uC. Total 4.
- 7 ¹/₂f. Professor DIXON. — Ethnography of Oceania.
2 Gr., 1 Se., 1 ocC. Total 4.
- 11 ¹/₂f. Professor DIXON. — Ethnography of Asia. 1 Gr. Total 1.
- 14 ¹/₂f. Dr. HOOTON. — Ethnography of Africa.
3 Gr., 1 Se., 1 Ju., 1 ocC. Total 6.
- 12 ¹/₂f. Asst. Professor TOZZER. — Primitive Sociology, a History of Institutions.
3 Gr., 1 Se., 1 Ju., 1 So., 1 ocC., 1 Di. Total 8.
- 8 ¹/₂f. Professor DIXON. — American Indian Languages. 3 Gr. Total 3.
- 9 ¹/₂f. Asst. Professor TOZZER. — Archaeology and Hieroglyphic Systems of Central America.
2 Gr., 1 Ju. Total 3.
- 10 ¹/₂f. Asst. Professor TOZZER. — Archaeology and Ethnography of Mexico.
1 Gr., 1 Se., 1 Ju. Total 3.

Primarily for Graduates: —

Courses of Research

- 120a. Professor DIXON. — American Archaeology and Ethnology.
3 Gr., 1 R. Total 4.
- 20b. Dr. HOOTON. — Advanced Physical Anthropology.
1 Ju., 1 B.I. Total 2.
- 20d. Professor DIXON. — General Ethnology. 2 Gr. Total 2.
- 20e. Asst. Professor TOZZER. — Central American and Mexican Archaeology and Hieroglyphics.
1 Gr. Total 1.

GROUP IV

PHILOSOPHY AND PSYCHOLOGY

PHILOSOPHY

Primarily for Undergraduates: —

- A ¹/₂f. Professor R. B. PERRY. — History of Ancient Philosophy.
2 Se., 61 Ju., 108 So., 143 Fr., 2 Sp., 25 uC. Total 341.
- B ¹/₂f. Asst. Professor HOERNLÉ. — History of Modern Philosophy.
3 Se., 49 Ju., 94 So., 93 Fr., 1 Sp., 25 uC., 1 And. Total 266.
- C ¹/₂f. Dr. SHEFFER. — Outlines of Logic.
2 Gr., 1 Se., 12 Ju., 7 So., 33 Fr., 1 Sp., 8 uC. Total 64.
- 1 ¹/₂f. (formerly D). Asst. Professor HOERNLÉ. — General Problems of Philosophy.
17 Se., 28 Ju., 25 So., 3 Fr., 1 Sp., 4 uC. Total 78.
- 2 ¹/₂f. Professor HOCKING. — Introduction to Philosophy through the Problems of Conduct and Religion.
1 Gr., 20 Se., 36 Ju., 23 So., 1 Fr., 3 Sp., 8 uC., 1 ocC., 1 And., 1 Di. Total 95.

For Undergraduates and Graduates: —

- 3 ¹/₂f. Asst. Professor HOLZ. — Philosophy of Nature. Outline of a unified conception of the world we live in.
4 Gr., 21 Se., 14 Ju., 13 So., 1 Fr., 2 uC., 2 ocC. Total 57.

4. Professor HOCKING. — Ethics. General Course.
6 Gr., 20 Se., 38 Ju., 12 So., 1 Fr., 5 uC., 2 ocC., 2 Sp., 3 And., 1 N.T.I.,
2 Di. Total 92.
- 5 ¹/₂hf. Dr. SARTON. — The Origins and Development of Hellenic Science.
1 Se., 7 Ju., 1 So., 1 ocC. Total 10.
- 7 ¹/₂hf. Professor FENN. — Theism.
2 Gr., 2 Ju., 1 So., 1 uC., 9 Di., 9 And. Total 24.
- A7 ¹/₂hf. Professor EVANS. — The Philosophic Basis of the Christian Religion.
1 So., 1 ocC., 6 And., 1 Di. Total 9.
- 8 ¹/₂hf. Dr. SHEFFER. — Advanced Logic. — Symbolic Logic. The Relation of
Symbolic to the Traditional and other Types of Logic.
4 Gr., 1 Se., 3 Ju., 2 So., 1 Fr. Total 11.
- 10 ¹/₂hf. Asst. Professor LANGFELD. — Aesthetics.
13 Gr., 10 Se., 22 Ju., 11 So., 1 Fr., 2 uC., 2 Sp. Total 61.
- 13b ¹/₂hf. Dr. FULLER. — Platonic Philosophy.
2 Gr., 11 Se., 23 Ju., 15 So., 1 Fr., 4 ocC. Total 56.
- 14a ¹/₂hf. Dr. FULLER. — Descartes, Spinoza, and Leibnitz.
3 Gr., 1 Se., 7 Ju., 3 So., 1 ocC. Total 15.
- 15 ¹/₂hf. Dr. MASON. — The Kantian Philosophy.
9 Gr., 1 Se., 1 Ju., 1 Sp. Total 12.
- 17a ¹/₂hf. Professor EDWARD C. MOORE. — History of Christian Thought since
1632. 2 Gr., 1 Se., 3 Ju., 2 So., 1 Sp., 4 Di., 2 And., 1 N.T.I. Total 16.
- 18 ¹/₂hf. Professor R. B. PERRY. — Present Philosophical Tendencies. A brief
survey of contemporary Philosophy, with special reference to its appli-
cation in religion, ethics, and politics.
6 Gr., 4 Se., 15 Ju., 8 So., 1 uC., 3 Sp., 3 And., 2 Di. Total 42.
- Primarily for Graduates:—*
- Mathematics 27 ¹/₂hf. (See Mathematics, p. 65.)
- †22 ¹/₂hf. Asst. Professor HOERNLÉ. — Logical Theory. A Comparative Study
of Logical and Epistemological Theories, with special attention to
Bradley and Bosanquet, and references to Russell, Husserl, and Mei-
nong. 9 Gr., 2 Se. Total 11.
- 23 ¹/₂hf. Dr. SHEFFER. — Philosophic Method. 4 Gr., 1 Se. Total 5.
- 24 ¹/₂hf. Professor EDWARD C. MOORE. — Philosophy of Religion.
5 Gr., 1 Se., 1 ocC., 1 Sp., 6 Di., 1 And. Total 15.
- †25 ¹/₂hf. Professor R. B. PERRY. — Ethical Theory — Advanced course.
10 Gr., 3 Se., 1 Ju., 3 R. Total 17.
- 28 ¹/₂hf. Dr. WOLFSON. — Introduction to Mediaeval Jewish Philosophy, with
special reference to Moslem Philosophy and to Aristotelianism.
1 Se., 2 Ju., 4 So., 1 uC. Total 8.
20. Special Research in Philosophy, under the direction of an instructor of
the Department, and not provided for in a regular seminary.
6 Gr. Total 6.
- †20a. Asst. Professor HOERNLÉ. — Seminary in Metaphysics.
14 Gr., 1 Sp., 2 Ju., 2 Di., 1 R. Total 20.
- 20c. Asst. Professor HENDERSON and Dr. SHEFFER. — Seminary in Logic.
Problems in Philosophical Technique. 5 Gr. Total 5.

- ‡20d. Professor R. B. PERRY. — Seminary in Ethics. 12 Gr., 1 R. Total 13.
- ‡20f. Professor HOCKING. — Seminary in the Philosophy of the State. Nationality and International Relations; Theory of Rights and Legislation; Democracy. 15 Gr., 3 Se., 1 And., 1 B.U., 1 L., 3 R. Total 24.
- 20g. Dr. SARTON. — Seminary in the History of Science. History of the Physical Sciences. 2 Gr. Total 2.
- Greek and Latin 8. (See the Classics, p. 32.)

PSYCHOLOGY

Primarily for Undergraduates: —

- A ¹/₂f. Asst. Professor LANGFELD. — General Introduction to Psychology. 32 Ju., 45 So., 100 Fr., 6 Sp., 18 uC. Total 201.
- 1 ¹/₂f. Asst. Professor YERKES. — Introduction to Comparative Psychology. Mind in lower animals, children, and primitive peoples; the course of the evolution of mind in the individual and in the race. 22 Se., 38 Ju., 27 So., 2 Fr., 4 Sp., 10 uC., 4 ocC. Total 107.
- 2 ¹/₂f. Asst. Professor HOLT. — Introduction to the Psychology of Human Behavior. 3 Gr., 17 Se., 28 Ju., 22 So., 3 Fr., 5 uC., 1 ocC., 1 E.T.S. Total 80.
- For Undergraduates and Graduates: —*
- 5 ¹/₂f. Dr. TROLAND. — Advanced Psychology. 7 Gr., 1 Se., 3 Ju., 6 So., 1 uC., 1 ocC., 2 Sp., 1 B.U., 1 Instr. Total 23.
- 7a ¹/₂f. Asst. Professor YERKES. — Genetic Psychology. — The development of mind in the individual, — ontogenesis. 5 Gr., 5 Se., 6 Ju., 1 So., 1 uC., 1 ocC., 1 Sp. Total 20.
- 7b ¹/₂f. Asst. Professor YERKES. — Genetic Psychology. — Mental evolution in the race, — phylogenesis. 4 Gr., 1 Se., 5 Ju., 1 uC., 1 ocC. Total 12.

Education 7 ¹/₂f. (See Education, p. 58.)

- 10 ¹/₂f. Asst. Professor LANGFELD. — Experimental Human Psychology (introductory laboratory course). 4 Gr., 2 Se., 4 Ju., 4 So., 1 B.U. Total 15.
- 10a. Professor MÜNSTERBERG and Asst. Professor LANGFELD. — Experimental Human Psychology (advanced laboratory course). 1 Ju., 3 So., 1 uC. Total 5.
- 11 ¹/₂f. Asst. Professor YERKES. — Experimental Animal Psychology (introductory laboratory course). 1 Gr., 1 Se., 1 Ju., 2 So., 1 Fr. Total 6.
- 12 ¹/₂f. Dr. TROLAND. — Psychophysiology of Vision. 2 Gr., 1 Se., 1 ocC., 1 Instr. Total 5.
- 15 ¹/₂f. Asst. Professor HOLT. — History of Psychology. 8 Gr., 1 Sp. Total 9.
- Primarily for Graduates: —*
24. Dr. TROLAND. — Research in Psychophysiological Optics. 1 Se. Total 1.
20. Special Research in Psychology, under the direction of an instructor of the Department. 1 Gr., 1 Ju. Total 2.

- 20e. Professor HOCKING. — Seminary in Psychology. — The Fundamental Conceptions and Principles of Psychology.
17 Gr., 1 So., 2 Di., 1 B.U., 1 N.T.I. Total 22.
- 20f ¹/₂f. Asst. Professor LANGFELD. — Seminary in Psychology. — Experimental Methods.
7 Gr., 1 ocC., 1 Instr. Total 9.
- 20g ¹/₂f. Professor SOUTHARD. — Seminary in Psychopathology.
3 Gr., 1 Se., 2 ocC., 1 Me. Total 7.
- 20a. Asst. Professor LANGFELD. — Psychological Laboratory. Experimental investigations in human psychology, including problems of applied psychology.
12 Gr. Total 12.
- 20b ¹/₂f. Asst. Professor HOLT. — Psychological Laboratory. Experimental investigations in physiological psychology.
1 ocC. Total 1.
- 20d. Asst. Professor YERKES. — Psychological Laboratory. Experimental investigations in comparative or genetic psychology.
6 Gr., 1 Se., 1 Ju. Total 8.
- Education 20c, 20d. (See Education, p. 59.)

SOCIAL ETHICS

For Undergraduates and Graduates:—

1. Asst. Professor FOERSTER and Asst. Professor JAMES FORD, assisted by Mr. MERIAM. — Social Problems and Social Policy. Principles and Methods of Social Amelioration.
2 Gr., 13 Se., 46 Ju., 14 So., 1 Fr., 1 Sp., 5 uC., 1 ocC., 3 Di., 1 And., 1 E.T.S. Total 88.
- 2 ¹/₂f. Asst. Professor JAMES FORD. — Poor-Relief.
1 Gr., 6 Se., 4 Ju., 3 So., 2 uC., 1 ocC. Total 17.
- 4 ¹/₂f. Asst. Professor FOERSTER. — Immigration and Race Problems.
3 Gr., 20 Se., 7 Ju., 1 So., 1 uC., 3 ocC., 1 Di., 1 B.U. Total 37.
- 5 ¹/₂f. Asst. Professor JAMES FORD. — The Housing Problem.
1 Gr., 6 Se., 3 Ju., 1 So., 1 uC., 1 Di. Total 13.
- 6 ¹/₂f. Asst. Professor FOERSTER. — Unemployment and Other Interruptions of Income, with Special Consideration of Social Insurance.
3 Gr., 3 Se., 7 Ju., 3 So., 3 uC., 1 Di. Total 20.
- 7 ¹/₂f. Asst. Professor JAMES FORD. — Rural Social Development.
4 Gr., 4 Se., 8 Ju., 2 So., 1 uC., 3 Di. Total 22.

Primarily for Graduates:—

- 15 ¹/₂f. Asst. Professor FOERSTER. — Recent Theories of Social Reform.
5 Gr., 2 E.T.S. Total 7.

Courses of Research

- 20 ¹/₂f. Asst. Professor FOERSTER and Asst. Professor JAMES FORD conducted Researches of Competent Students in Special Fields of Social Ethics.
1 Se., 1 Ju., 1 B.U. Total 3.
- †20b. Asst. Professor JAMES FORD. — Seminary. The Alcohol Problem.
2 Gr., 1 Se., 1 And., 1 B.U. Total 5.

MATHEMATICS

Primarily for Undergraduates: —

- A. Associate Professors HUNTINGTON and BOUTON and Asst. Professor BIRKHOFF, Dr. GREEN, and Messrs. KEFFER, W. LER. HART, BERRIDGE, R. P. JOHNSON, HOPKINS, and T. A. PIERCE. — Trigonometry, Analytic Geometry, Introduction to the Calculus.

2 Se., 11 Ju., 35 So., 113 Fr., 5 uC. Total 166.

- C. Professor BÔCHER, Dr. KIRCHER, and Messrs. HOPKINS and T. A. PIERCE. — Analytic Geometry; Introduction to the Calculus.

4 Ju., 15 So., 66 Fr., 6 uC. Total 91.

- D ¹/₂f. Dr. KIRCHER and Mr. R. P. JOHNSON. — Algebra.

4 Se., 4 Ju., 15 So., 19 Fr. Total 42.

- E ¹/₂f. Dr. GREEN and Mr. R. P. JOHNSON. — Solid Geometry.

5 Se., 3 Ju., 9 So., 17 Fr. Total 34.

- K ¹/₂f. Mr. W. LER. HART. — Logarithms; Plane and Spherical Trigonometry.

3 Se., 9 Ju., 14 So., 6 Fr., 1 uC., 1 ocC. Total 34.

2. Professor OSGOOD, and Asst. Professors J. L. COOLIDGE and DUNHAM JACKSON, Dr. KIRCHER, and Mr. W. LER. HART. — Differential and Integral Calculus; Analytic Geometry.

6 Se., 25 Ju., 80 So., 1 Fr., 1 uC., 1 ocC. Total 114.

4. Asst. Professor DUNHAM JACKSON. — The Elements of Mechanics.

3 Gr., 10 Se., 20 Ju., 10 So. Total 43.

For Undergraduates and Graduates: —

3. Asst. Professor J. L. COOLIDGE. — Introduction to Modern Geometry and Modern Algebra.

4 Gr., 7 Se., 4 Ju., 3 So. Total 18.

- 5a ¹/₂f. Associate Professor BOUTON. — Differential and Integral Calculus. Part I.

5 Gr., 6 Se., 26 Ju. Total 37.

- 5b ¹/₂f. Associate Professor BOUTON. — Differential and Integral Calculus. Part II.

4 Gr., 6 Se., 20 Ju. Total 30.

- 21 ¹/₂f. Professor BÔCHER. — Interpolation and Approximation.

5 Gr., 1 Se., 2 Ju. Total 8.

- 18 ¹/₂f. Dr. GREEN. — The Elementary Theory of Differential Equations.

4 Gr., 3 Se., 2 Ju. Total 9.

- 6 ¹/₂f. Professor BÔCHER. — Vector Analysis.

2 Gr., 1 Se., 1 Ju. Total 4.

- 8 ¹/₂f. Asst. Professor BIRKHOFF. — Dynamics (second course).

4 Gr., 1 Se. Total 5.

Primarily for Graduates: —

- †12 ¹/₂f. Asst. Professor DUNHAM JACKSON. — Infinite Series and Products.

8 Gr., 2 Se., 3 R. Total 13.

- †13. Professor BÔCHER. — The Theory of Functions (introductory course).

10 Gr., 2 Se. Total 12.

- †14b ¹/₂f. Professor OSGOOD. — Algebra. Galois's Theory of Equations.

4 Gr., 1 Se., 1 Ju., 2 R. Total 8.

- †22. Dr. GREEN. — Differential Geometry of Curves and Surfaces.

6 Gr., 1 Se., 1 R. Total 8.

- †26. Asst. Professor COOLIDGE. — Line Geometry.

1 Gr., 1 R. Total 2.

- ‡27 ¹/_{hf}. Associate Professor HUNTINGTON. — The Fundamental Concepts of Mathematics. 9 Gr., 1 Se., 2 R. Total 12.
- ‡10a ¹/_{hf}. Professor OSGOOD. — Introduction to the Theory of Potential Functions and Laplace's Equation. 5 Gr., 2 Ju. Total 7.
- ‡10c ²/_{hf}. Asst. Professor BIRKHOFF. — The Analytical Theory of Heat. Fourier's Series; Legendre's Polynomials. 3 Gr. Total 3.
- ‡16a ¹/_{hf}. Mr. W. LER. HART. — The Calculus of Variations. 2 Gr. Total 2.
- ‡16b ²/_{hf}. Asst. Professor BIRKHOFF. — Applications of the Calculus of Variations. 4 Gr. Total 4.
- ‡19a ¹/_{hf}. Professor BÔCHER. — Linear Differential Equations. Complex Variables. 8 Gr., 1 R. Total 9.
- ‡25. Associate Professor BOUTON. — Geometrical Transformations, with special reference to the work of Sophus Lie. 2 Gr., 1 Instr. Total 3.
- ‡35 ²/_{hf}. Asst. Professor DUNHAM JACKSON. — Lebesgue Integrals. 4 Gr., 1 Se., 1 R. Total 6.
- ‡36 ¹/_{hf}. Dr. KIRCHER. — Finite Groups. 1 Gr. Total 1.
- ‡37 ²/_{hf}. Professor BÔCHER. — Functions of Infinitely Many Variables. 1 Gr. Total 1.

‡ *Seminary in Analysis*

- Professor OSGOOD and Asst. Professor BIRKHOFF. 3 Gr. Total 3.

Courses of Research

- 20b. Professor BÔCHER. — The Real Solutions of Linear Differential Equations. 1 Gr. Total 1.
- 20c. Associate Professor BOUTON. — Topics in the Theory of Point-Transformations. 1 Gr. Total 1.
- 20d. Asst. Professor COOLIDGE. — Topics in Geometry. 1 Gr. Total 1.
- 20e. Asst. Professor BIRKHOFF. — Topics in the Theory of Differential Equations. 1 Gr. Total 1.
- 20f. Asst. Professor DUNHAM JACKSON. — Topics in the Theory of Functions of a Real Variable. 1 Gr. Total 1.
- 20g. Dr. GREEN. — Topics in Differential Geometry. 1 Gr. Total 1.

OUT OF GROUP

MILITARY SCIENCE AND TACTICS

- 1 Captain CONSTANT CORDIER. — Theoretical and practical military training. 30 Gr., 39 G.B., 131 Se., 184 Ju., 198 So., 207 Fr., 5 Sp., 19 uC., 10 ocC., 24 L., 1 Di., 6 S.A., 2 S.L.A., 5 M.I.T., 1 E.T.S., 2 Instr. Total 864.

COURSES IN MEDICAL SCIENCES

ANATOMY

- 1 *hf.* Associate Professor JOHN WARREN. — Elementary Human Anatomy. 1 Gr. Total 1.
 20. Associate Professors BREMER, WARREN, and LEWIS. — Research. 1 Gr. Total 1.

PHYSIOLOGY

10. Professor CANNON, Asst. Professor STILES, Dr. DRINKER, and assistants. — Elementary Course. 4 Gr. Total 4.
 12. Professor CANNON and Dr. A. FORBES. — Pre-research Training. 1 Gr. Total 1.
 20. Professor CANNON and Dr. A. FORBES. — Research, Thesis, and Examination. 1 Gr. Total 1.

BIOCHEMISTRY

1. Professor FOLIN and Asst. Professor BLOOR. — General Biological Chemistry. 1 Gr., 3 Sp. Total 4.
 5. Professor FOLIN and Asst. Professor BLOOR. — Advanced Biological Chemistry. 1 Gr. Total 1.
 20. Professor FOLIN and Asst. Professors HENDERSON and BLOOR. — Research in Biological Chemistry. 5 Gr. Total 5.

PATHOLOGY

- 1 *hf.* Professor COUNCILMAN and Associate Professor WOLBACH. — General Pathology. 2 Gr. Total 2.
 2 *hf.* Professor COUNCILMAN and Associate Professor WOLBACH. — General and Special Pathology. 2 Gr. Total 2.
 3. Asst. Professor VERHOEFF. — Research. 1 Gr. Total 1.

BACTERIOLOGY

- 1 *hf.* Professor ERNST and Associate Professor WOLBACH. — Elementary Bacteriology. 1 Gr. Total 1.

PREVENTIVE MEDICINE AND HYGIENE

1. Professor ROSENAU. — Elementary Course. 1 Gr. Total 1.

Since the small number of hours convenient for large classes has led to the clogging of the hours between ten and twelve, the Faculty, following the recommendations of a special committee, voted (March 20): —

- (a) That the Committee on Instruction be requested not to allow any more courses to be announced for 10 and 11 o'clock except for special reasons satisfactory to the Committee.
 (b) That the Committee on Instruction be requested to encourage greater use of the Saturday morning hours and the 12 o'clock hour on all days of the week.

By further vote of the Faculty, Divisions and Departments are "requested to seek a method of reducing the number of exercises held at ten and eleven A.M."

The most noteworthy action of the Faculty, before and after the entry of America into the war, concerned instruction in Military Science or Art (whether Science or Art no one seemed to know) and the relation of such instruction to instruction in other subjects.

In December the Faculty approved four half-courses in Military Science, subject to the approval of the War Department. In February, it voted that the Administrative Board of Harvard College might, in its discretion, permit a student to count the first half of a whole course as a half-course and to substitute for the second half a half-course in Military Science; also that the Committee on Elective Courses might, in its discretion, suspend the rules for concentration and distribution, when the application of those rules would prevent a Senior from electing Military Science.

On March 27, the Faculty voted:—

- (1) That for students whose academic year is cut short by enlistment in the military or naval service of the United States or of any State the courses thus interrupted be credited as if they had been continued until the end of the year; and that instructors, after applying such tests as may seem to them expedient, return for such students grades representing their standing up to the time of their departure.
- (2) That, if arrangements shall be made by which students may devote their full time to the work of the Reserve Officers' Training Corps, special final examinations be provided for such students in advance of the regular final examination period.
- (3) That for the benefit of the above-mentioned students Department and Division Committees be instructed to advance the dates of examinations for Honors, Distinction, and, in the Division of History, Government, and Economics, for graduation, and for the degree of Ph.D.
- (4) That for all other students instruction and examinations be conducted as usual.

By vote of April 3, Clause (2) in the foregoing vote was applied to men who should join either of the American Ambulance Corps in France.

When it became clear that instead of leaving college immediately and in a body, students were leaving it in small numbers and from week to week, the earlier votes of the Faculty were modified by new votes of April 10:—

That arrangements be made whereby all students under the Faculty of Arts and Sciences now registered in the Reserve Officers'

Training Corps and all students under that Faculty who by April twenty-fifth have registered with the Recorder in Military Science and Tactics 1, and who are admitted to the Reserve Officers' Training Corps before April twenty-eighth, may devote their full time to the work of the Corps, beginning May seventh.

That for such students and for students who leave the University after May fifth to join either of the American Ambulance Corps in France, special final examinations of two hours each be held from April twenty-eighth to May fifth.

That for students who in joining either of the Ambulance Corps in France must leave the University on or before May fifth, instructors be authorized to return grades as for students enlisting in the Military or Naval Service of the United States.

On the same day, it was voted:—

That in the opinion of the Faculty graduates and other properly qualified students be admitted to the Reserve Officers' Training Corps, with the understanding that all arrangements with the War Department concerning the admission of persons not now registered in the University be left to the President with power.

At about this time the Administrative Board was beset with petitions to regard sudden farming, and other non-military activities designed for public service, as equivalent to military service in releasing students from further attendance at the College and in modifying the final tests of their college work. Though a few of these petitions seemed reasonable, the Faculty believed that most of them should be refused, and accordingly voted:—

That in the opinion of the Faculty students who do not enter the military, naval, or ambulance service, or special training therefor, should continue their academic work until the close of the year; the Administrative Boards are authorized to deal with any exceptional cases of students with special qualifications or with special opportunity to enter other forms of service useful to the public.

The Committee on Admission was entrusted with discretion corresponding to that of the Administrative Boards in dealing with final candidates for admission who leave school for public service.

In May the Faculty voted that in cases approved by the Administrative Boards students working for the Red Cross and called to service before the June examinations might be treated like the students designated in section (1) of the votes of March 27.

Thus through special legislation the Faculty, so far as can be ascertained, succeeded in steering between unsympathetic enforcement of stiff rules at a time when rules needed to bend, and weak yielding to a spirit of inefficient restlessness. Last winter the position of many young men at college was perplexing in the extreme.

Far from home, unable to talk face to face with their natural advisers, they were suddenly confronted with such questions of relative responsibility as even mature and experienced men have found unanswerable. The first natural result was an unsettled state of mind which might lead them to doing nothing or worse. Making reasonably sure that somehow and somewhere they should be held to useful work was the first duty of the college authorities; turning that work into the service of the country or into preparation for such service was the second. That the authorities should succeed completely was not to be expected; that they did succeed in great measure, can scarcely be denied by any one who knows the situation in the latter half of the last academic year.

For whatever success the authorities achieved a large share of the credit belongs to the students. Not knowing from day to day what recognition, if any, their military organization was to receive from the Government; stirred by the most awful war in all history; bewildered by conflicts of duty; eager, with the eagerness of boys, to take a man's risk for a great cause, they held themselves down to drudgery, military or academic as the case might be, with a self-restraint and a determination that do honor to their college and to their country. Individual exceptions are numerous, no doubt; but the high and intelligent seriousness of the students as a body is a vindication, if one were needed, of the spirit of an American University.

L. B. R. BRIGGS, *Dean*.

THE COLLEGE

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — I have the honor to present to you a report on Harvard College for the academic year 1916-17.

The number of students in the College at the time the lists were compiled for the Catalogue of 1916-17 was two thousand five hundred and eighty-two, divided as follows: —

| | |
|-------------------------------------|-------|
| Seniors..... | 424 |
| Juniors..... | 640 |
| Sophomores..... | 651 |
| Freshmen..... | 694 |
| <hr/> | |
| Total number of undergraduates..... | 2,409 |
| Out-of-Course Students..... | 50 |
| Unclassified Students..... | 123 |
| <hr/> | |
| Total..... | 2,582 |

Compared with the figures at the corresponding time of the preceding year, these show a gain of seventy-six: —

| | Gain | Loss |
|-----------------------------|------|------|
| Seniors..... | 12 | |
| Juniors..... | 86 | |
| Sophomores..... | | 14 |
| Freshmen..... | 11 | |
| Out-of-Course Students..... | | 5 |
| Unclassified Students..... | | 14 |
| <hr/> | | |
| Totals..... | 109 | 33 |
| <hr/> | | |
| Net gain..... | 76 | |

During the year the following students died: —

| | |
|-------------------------------------|-------------------|
| Julian Henry Reinherz, '18..... | December 22, 1916 |
| Randolph Howard Hitchcock, '19..... | February 5, 1917 |
| Everett Tryon King, '18..... | February 22, 1917 |

Four hundred thirty-four candidates (fourteen in February and four hundred twenty in June) received the degree of Bachelor of Arts. Of these, three hundred twenty-six were regularly registered

as Seniors; the registration of the others is shown in the following table: —

| | |
|--|-----------|
| On leave of absence all the year | 21 |
| On leave of absence first half-year | 2 |
| On leave of absence second half-year | 26 |
| Graduate Students in Arts and Sciences | 1 |
| Registered in the Law School | 10 |
| Registered in the Business School | 5 |
| Registered in the Junior Class | 7 |
| Registered as an Out-of-Course Student | 1 |
| | <hr/> 73 |
| To be designated "as of 1918" in the <i>Quinquennial</i> | |
| <i>Catalogue</i> | 35 |
| | <hr/> 108 |

Eighty-one candidates (two in February and seventy-nine in June) received the degree of Bachelor of Science. Their registration is indicated in the next table: —

| | |
|--|----------|
| In the Senior Class | 68 |
| In the Junior Class | 3 |
| On leave of absence all the year | 1 |
| On leave of absence second half-year | 5 |
| Registered in the Business School | 2 |
| | <hr/> 79 |
| To be designated "as of 1918" in the <i>Quinquennial</i> | |
| <i>Catalogue</i> | 2 |
| | <hr/> 81 |

Compared with the table of last year, these last two tables show a decrease of nine in the number of candidates receiving the degree of Bachelor of Arts and an increase of twenty-nine receiving the degree of Bachelor of Science.

The Freshman Class of 1917-18 shows a decrease of one hundred forty-one. The number of men in the Class who entered College in 1917-18 is one hundred seventeen less than the corresponding number in 1916-17.

Sixty-one students won a place in the First Group of Scholars, one hundred thirty-nine in the Second Group. Of these, eighteen in the First Group and thirty-eight in the Second Group have not returned to College, in nearly every case because of their entrance into some form of National Service.

Of the sixty-one students in the First Group, nineteen have been awarded honorary scholarships; forty-two, stipendiary. Last year seventy-five students won a place in the First Group. Of

these, twenty-six received honorary scholarships; forty-nine, scholarships with stipend.

Of the one hundred thirty-nine students in the Second Group, fifty-two have been awarded honorary scholarships; eighty-seven, stipendiary. Last year one hundred fifty-two students were in this Group, sixty-six holding honorary scholarships, and eighty-six, scholarships with stipend.

In the First Group are twenty Seniors, eighteen Juniors, twenty-two Sophomores, and one candidate for the degree out of course; in the Second Group, fifty Seniors, forty-nine Juniors, and forty Sophomores; giving as totals seventy Seniors, sixty-seven Juniors, sixty-two Sophomores, and one candidate for the degree out of course.

The members of the Administrative Board for the year 1916-17 were Professor C. P. Parker, Regent Brandegee, Professors Ward, Chase, Lamb, Lee, and the Dean. Professor Parker died on December 2, 1916, and the Administrative Board thereby lost a member whose fidelity and effectiveness were a standard for his colleagues.

In the course of the year, the Board closed the probation of twenty students and the trial of three; thirteen students who, at some previous time, after having had their connection with the College severed, had been readmitted on condition that if their records became unsatisfactory they should withdraw upon request, failed to maintain satisfactory records and were requested to withdraw; two students were required to withdraw. At the end of the year, the connection of one hundred three students was severed because of their low records. For an offence involving moral turpitude two students were dismissed.

In the College, as elsewhere, the outbreak of war dwarfed all other events of the year. The College work had, however, been hampered earlier by two incidents which, in ordinary times, would be regarded as serious — namely, the epidemic of infantile paralysis along the Atlantic coast and the military service of many of our students on the Mexican border. Several colleges retarded their opening because of the epidemic. It is a satisfaction to report that the decision of the Harvard authorities to open on time, made after careful deliberation and upon expert advice, was vindicated. Only one student contracted poliomyelitis throughout the college year, and it is probable that he did not contract the disease in Cambridge. Some forty-five men were allowed to register late because they were held in the militia by the difficulty with Mexico.

In nearly every instance, their previous records were such as to enable them to maintain their standing even though the necessity of making up lost work forced a reduction in their program of studies for the first half-year.

The serious business of the year, however, was occasioned by the temporary modification of the requirements in favor of students enlisting in National Service. When the enlistment was in military or naval service or in special preparation therefor, the votes of the Faculty expressly provided that credit might be received for the work of the year, even though that work was not completed. When the service contemplated was not military or naval, the Faculty left to the Administrative Board the decision whether credit for an abbreviated year might be given. Special final examinations were held from April 30th to May 5th inclusive, and, whenever it was practicable, departing volunteers were required to take these tests. When these tests were not practicable, volunteers were given credit on the basis of such tests as instructors thought necessary to determine the quality of work done. In no case was credit given unless the work done up to the time of leaving was of requisite quality, attested by examination which might be informal but must be substantial. In some instances, no tests of any kind could be arranged, and, in consequence, no credit could be given. Students who left early with credit for the year were required to furnish satisfactory evidence that they remained in National Service through the period of the regular final examinations.

At the close of the year, 2405 men appeared on the College books as presumptively entitled to credit for the year's work. Of this number, 26 failed to take final examinations or to bring themselves within the provisions made by the Faculty for credit without final examination. The remaining 2379 completed the year as follows:

| | |
|--|-----|
| Took all regular final examinations | 913 |
| Took all early final examinations | 490 |
| Took regular final examination in Military Science and early final examinations in other courses (because of the beginning of intensive training by the Regiment on May 7, 1917) | 369 |
| Took early final examination in Military Science and regular final examinations in other courses (men discharged from the Regiment prior to the beginning of intensive training) | 26 |
| Took in part early and in part regular final examinations (exclusive of men enrolled in Military Science) | 26 |
| Received credit for short year based on tests other than final examinations | 353 |

| | |
|--|----|
| Excused from all final examinations on the strength of general examinations for concentration or distinction | 26 |
| Similarly excused from part of final examinations and in part of their courses taking early final examinations | 44 |
| Similarly excused from part of final examinations and in part of their courses taking regular final examinations | 56 |
| Received credit for short year based on tests other than final examinations in part of their courses and took special final examinations in part | 44 |
| Received credit for short year based on tests other than final examinations in part of their courses and took regular final examinations in part | 31 |
| Received credit for short year based on tests other than final examinations in part of his courses, took special finals in part and regular finals in part | 1 |

In administering the votes of the Faculty relative to men entering National Service, the Board considered nearly four hundred petitions. Students left to go into the secret service, to act as civil service examiners, to do skilled work in shipyards. Nineteen men with experience who had special opportunities for farming were allowed to go early with credit for the year. The large majority, however, passed immediately into military or naval work.

The end of another year finds the Freshman Halls almost traditional. Assistant Dean Mayo, in charge of the Freshman Class, has assigned the rooms since 1915. As he resides in James Smith, he has been in a peculiarly favorable position to assist the Regent in the administration. With the support of the Resident Members of the Faculty, the Proctors, and, not least, the students themselves, the Regent and Dean Mayo have constantly strengthened the life of the Halls.

The experiment of having two Assistant Deans worked well and gave promise of still greater success in future. Assistant Dean Little resigned at the end of the year, however, to go to Plattsburg, and, for the present, it seems best to have only one Assistant Dean.

HENRY A. YEOMANS, *Dean.*

ATHLETIC SPORTS

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — The report of the Committee on the Regulation of Athletic Sports for the year 1916-17 must be brief. Till war was declared more students than usual engaged in athletic sport. This is especially true of the Freshmen. Even at the end of the year the number of students on the river and on the tennis courts was not small; but the physical energy and the mental concentration once bestowed on athletics were rightly brought to bear on military training.

In football and hockey we won from Princeton and lost to Yale; in track athletics, baseball, and rowing, University contests were abandoned because of the war. Mr. Haines, the coach of the Crew, and Mr. Duffy, the coach of the Nine, are retained for work with such students as they may help; but the University teams as we have known them in recent years do not exist today. The College has been severely blamed for suspending intercollegiate athletics. Intercollegiate athletics in any recognizable sense of the name had become impossible and almost unimaginable. The spirit that makes a man an athlete makes him at the very first call of his country a soldier; and when war was declared, our games with Yale, which had seemed the most important events of life, became in a moment unrealities, to which no earnest man in a university team or crew could give serious thought. Practically all our athletes who did not enlist as volunteers gave themselves up to intensive military study and practice till in the summer all but two of seventy-nine men in the University football squad were in some form of National Service, or in training for it. These facts may be interpreted as evidence that intercollegiate athletic sport should be kept up. If it is good preparation for service in war, why abandon it now when we are at war for the first time in many years? If voluntary service takes nineteen-twentieths of our athletes, why not form a University team of men under age and therefore not yet accepted as soldiers, thus maintaining the old contests with new and avowedly inferior material? The teams of other colleges are crippled also; we and our rivals may be as fairly matched as ever; why hold back? Clearly it is our duty to encourage athletic sport,

and therefore athletic contests of some kind, among those students who because of youth or of physical defects are kept out of active military life. We still encourage such contests, for the sake of exercise, discipline, and the working off of youthful energy; but we believe that in these times military training comes before athletics, and claims more than divided allegiance. We believe, also, that such public spectacles as our games with Princeton and Yale are unbecoming now, when the friends and comrades of the participants are at the front, or on their way to it, and in imminent danger of a soldier's death. Whether a modified and less formal Yale or Princeton game than we have had could escape the publicity which the newspapers are watchful in maintaining is at least a matter for doubt.

One thing is certain: if when the world is at peace again, and intercollegiate contests are resumed, we fail to reduce the expense of coaching and training, to inculcate notions less luxurious, and to foster a better understanding of the relation between athletics and other interests of life, we shall lose one of the opportunities so dearly bought by this war. Meantime we have cause for thanks that, in the fearless and immediate response of college athletes to danger clearly seen as duty, the training of intercollegiate athletics, faulty as it is, has achieved no small measure of justification.

L. B. R. BRIGGS, *Chairman.*

THE GRADUATE SCHOOL OF ARTS AND SCIENCES

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — As Dean of the Graduate School of Arts and Sciences, I have the honor to submit a report on the School for the academic year 1916-17.

The following tables present in summary form information concerning the number and distribution of the students, recommendations for degrees, and the assignment of fellowships and scholarships.

Table I shows that the number of students registered in the School was six hundred and fifty, practically the same as in the preceding year. Of this number six hundred and thirty-four were resident, and seventeen non-resident, all of whom were travelling fellows. One name occurs in both lists. Of the resident students five hundred and forty-five were in attendance during the whole year, of whom three hundred and twenty-six were doing full work. Of the remaining eighty-nine resident students, forty-six entered the School after November 1, and forty-seven (including four of the preceding) withdrew before the end of the year. No account is taken of withdrawals for military or naval service toward the close of the year, yet it will be noted that for the first time in five years the past year showed no increase in the number of those studying in the School. The explanation is of course to be found in the increase in the tuition fee, which went into effect for new students in 1916. This result is likely to be permanent in the case of students coming from a distance, and to be confirmed by the conditions of life during the war and for some time thereafter. Independently of the diversion of students into war work of various kinds, the Graduate School is likely, for some time to come, to decrease rather than to grow. What other effects the war may have upon higher study it is as yet impossible to foresee.

TABLE I. — NUMBER AND CLASSIFICATION OF STUDENTS

| | 1914-15 | 1915-16 | 1916-17 |
|---|---------|---------|---------|
| I. Resident Students doing full work in the School for the whole academic year | 324 | 362 | 326 |
| Resident Students not doing full work or not working for the whole year as Resident Students | 222 | 275 | 308 |
| | —556 | —637 | —634 |
| Travelling Fellows | 17 | 15 | 17 |
| II. Students whose studies lay chiefly in | | | |
| Semitic Languages and History | 2 | 2 | .. |
| Ancient Languages (Classics and Indie Philology) . . . | 16 | 17 | 30 |
| Modern Languages (including Comparative Literature) . | 159 | 155 | 161 |
| History, Government, and Economics | 118 | 145 | 143 |
| Philosophy | 61 | 77 | 75 |
| Education | 41 | 63 | 61 |
| Fine Arts | 7 | 5 | 9 |
| Music | 7 | 6 | 6 |
| Mathematics | 20 | 25 | 23 |
| Physics | 24 | 22 | 23 |
| Chemistry | 48 | 58 | 53 |
| Biology | 32 | 31 | 30 |
| Geology | 14 | 15 | 14 |
| Anthropology | 5 | 3 | 8 |
| Medical Sciences | 10 | 13 | 13 |
| Unclassified Students | 9 | 15 | 11 |
| | —573 | —652 | —650 |
| III. First-year Students | 314 | 348 | 304 |
| Second-year Students | 119 | 165 | 168 |
| Third-year Students | 79 | 75 | 101 |
| Fourth-year Students | 35 | 38 | 52 |
| Students in fifth year or later | 26 | 26 | 25 |
| | —573 | —652 | —650 |
| IV. *A.B.'s and S.B.'s of Harvard University and of no other institution | 154 | 163 | 165 |
| A.B.'s and S.B.'s (and holders of similar degrees) of other institutions and also of Harvard University | 3 | 3 | 6 |
| A.A.'s of Harvard University | .. | 1 | .. |
| Students not holding the Harvard degree of A.B., S.B., or A.A. | 416 | 485 | 479 |
| | —573 | —652 | —650 |
| V. Students holding the Harvard degree of A.M., S.M., Ph.D., or S.D. | 136 | 147 | 155 |
| *Students holding the Harvard degree of A.B., S.B., or A.A., but not of A.M., S.M., Ph.D., or S.D. | 109 | 126 | 123 |
| Students holding no Harvard degree in Arts, Philosophy, or Science | 328 | 379 | 372 |
| | —573 | —652 | —650 |

In Table II similar facts concerning residence and amount of work are set forth for a period of twenty years. Tables III and IV show the percentage of students in their first and following years and the percentage of graduates of Harvard College.

* Harvard College Seniors on leave of absence, with work for the bachelor's degree completed or nearly completed, are counted in this Table as holders of the degrees for which they are candidates in Harvard College.

TABLE II. — NUMBER OF STUDENTS: 1897-1917

| | 1897-98 | 1898-99 | 1899-1900 | 1900-01 | 1901-02 | 1902-03 | 1903-04 | 1904-05 | 1905-06 | 1906-07 | 1907-08 | 1908-09 | 1909-10 | 1910-11 | 1911-12 | 1912-13 | 1913-14 | 1914-15 | 1915-16 | 1916-17 |
|--|---------|---------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Resident Students doing full work in the School for the whole academic year | 171 | 218 | 227 | 226 | 218 | 216 | 269 | 273 | 260 | 281 | 287 | 290 | 279 | 311 | 308 | 344 | 298 | 334 | 363 | 326 |
| Resident Students not doing full work or not working for the whole year as Resident Students | 107 | 103 | 99 | 113 | 86 | 94 | 123 | 105 | 133 | 105 | 119 | 123 | 156 | 147 | 139 | 134 | 197 | 222 | 275 | 308 |
| Whole number of Resident Students | 278 | 321 | 326 | 339 | 304 | 310 | 412 | 378 | 393 | 386 | 406 | 413 | 435 | 458 | 447 | 478 | 495 | 556 | 637 | 634 |
| Non-Resident Fellows | 15 | 12 | 13 | 14 | 11 | 15 | 14 | 15 | 16 | 21 | 17 | 15 | 15 | 26 | 28 | 26 | 34 | 17 | 15 | 17 |
| Other Non-Resident Students | .. | 3 | 2 | .. | .. | .. | 1 | 2 | .. | .. | 1 | 1 | 2 | .. | .. | .. | .. | .. | .. | .. |
| Whole number of Non-Resident Students | 15 | 15 | 15 | 14 | 11 | 15 | 15 | 17 | 16 | 21 | 18 | 16 | 17 | 26 | 28 | 26 | 34 | 17 | 15 | 17 |
| Whole number of Students | 293 | 336 | 341 | 353 | 315 | 325 | 427 | 395 | 409 | 407 | 424 | 429 | 452 | 484 | 475 | 504 | 529 | 573 | 652 | 650 |
| Percentage of Resident Students doing full work for whole academic year | 62 | 68 | 70 | 67 | 72 | 70 | 70 | 72 | 66 | 73 | 71 | 70 | 64 | 68 | 69 | 72 | 60 | 60 | 57 | 51 |

1 One duplication.

TABLE III. — PERCENTAGE OF STUDENTS IN THEIR FIRST AND FOLLOWING YEARS: 1904-1917

| | 1904-05 | 1905-06 | 1906-07 | 1907-08 | 1908-09 | 1909-10 | 1910-11 | 1911-12 | 1912-13 | 1913-14 | 1914-15 | 1915-16 | 1916-17 |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| First-year Students | % 60 | % 53 | % 56 | % 57 | % 57 | % 56 | % 53 | % 54 | % 52 | % 50 | % 54 | % 53 | % 47 |
| Second-year Students | 24 | 26 | 21 | 23 | 24 | 25 | 28 | 23 | 25 | 23 | 21 | 25 | 26 |
| Third-year Students | 11 | 13 | 14 | 12 | 12 | 11 | 11 | 14 | 14 | 16 | 14 | 12 | 15 |
| Fourth-year Students and Students of longer residence | 5 | 8 | 9 | 8 | 7 | 8 | 8 | 9 | 9 | 11 | 11 | 10 | 12 |

TABLE IV. — PERCENTAGE OF GRADUATES OF HARVARD COLLEGE: 1912-13 — 1916-17

| | 1912-13 | 1913-14 | 1914-15 | 1915-16 | 1916-17 |
|--|---------|---------|---------|---------|---------|
| Total enrolment | 504 | 529 | 573 | 652 | 650 |
| *Number of graduates of Harvard College .. | 143 | 152 | 155 | 166 | 165 |
| *Percentage of graduates of Harvard College. | 28 % | 29 % | 27 % | 25 % | 25 % |
| Number of graduates of other colleges and universities | 361 | 377 | 418 | 486 | 485 |
| Percentage of graduates of other colleges and universities | 72 % | 71 % | 73 % | 75 % | 75 % |

Tables V, VI, and VII indicate that the School continues to maintain its national character in the geographical distribution of its students and of the institutions from which they come to Harvard.

* Harvard College Seniors on leave of absence are reckoned as graduates of Harvard College. A.A.'s of Harvard University are, for purposes of convenience, also so counted.

TABLE V. — COLLEGES AND UNIVERSITIES REPRESENTED BY FOUR OR MORE GRADUATES IN THE SCHOOL:
1912-13, 1913-14, 1914-15, 1915-16, 1916-17

| 1912-13 | 1913-14 | 1914-15 | 1915-16 | 1916-17 |
|---------------------------|--------------------------|---------------------------|---------------------------|-----------------------------------|
| Harvard.....215 | Harvard.....238 | Harvard.....232 | Harvard.....269 | Harvard.....279 |
| Dartmouth.....21 | Dartmouth.....17 | Dartmouth.....22 | Yale.....18 | Dartmouth.....22 |
| Yale.....16 | Yale.....14 | Yale.....15 | Yale.....17 | Yale.....20 |
| Bowdoin.....10 | Haverford.....11 | Bowdoin.....13 | Amherst.....13 | California.....19 |
| Northwestern (Ill.).....9 | Williams.....11 | Brown.....12 | California.....14 | Columbia.....13 |
| Williams.....9 | Harvard.....10 | Bowdoin.....11 | Princeton.....13 | Minnesota.....12 |
| Kansas.....8 | California.....9 | Princeton.....10 | Tufts.....12 | Tufts.....13 |
| Boston Univ.....7 | Chicago.....9 | Boston Univ.....10 | Brown.....11 | Wisconsin.....12 |
| Brown.....7 | Boston Univ.....8 | Missouri.....10 | Rowdoin.....11 | Rowdoin.....12 |
| Indiana.....7 | Mass Inst. of Tech.....8 | Williams.....10 | Western Reserve.....11 | Brown.....11 |
| California.....7 | Minnesota.....8 | Mass Inst. of Tech.....9 | Texas.....10 | Michigan.....11 |
| Chicago.....7 | Bates.....7 | Tufts.....9 | Tufts.....10 | Princeton.....10 |
| Missouri.....7 | Amherst.....7 | Clark.....8 | Clark.....9 | Chicago.....10 |
| Bates.....6 | Texas.....7 | Clark.....8 | Illinois.....9 | Williams.....10 |
| Hamilton.....6 | Harvard.....6 | Harvard.....7 | Minnesota.....9 | Illinois.....9 |
| Haverford.....6 | McGill.....6 | Amherst.....7 | Pennsylvania.....9 | Missouri.....9 |
| McGill.....6 | Queen's.....6 | Michigan.....7 | Wisconsin.....9 | Haverford.....8 |
| Michigan.....6 | Pennsylvania.....6 | Minnesota.....7 | Haverford.....8 | Amherst.....7 |
| Pennsylvania.....6 | DePaul.....5 | Texas.....7 | Michigan.....7 | Boston.....7 |
| Amherst.....5 | Indiana.....5 | Bates.....6 | Cornell Univ.....7 | Cornell.....7 |
| Dalhousie.....5 | Oberlin.....5 | Columbia.....6 | Cornell Univ.....7 | Mass. Inst. of Tech.....7 |
| Mass. Inst. of Tech.....5 | Ohio Northern.....5 | Leland Stanford Jr.....6 | Ohio State.....7 | Northwestern (Ill.).....7 |
| Tufts.....5 | Ohio State.....5 | McGill.....6 | Williams.....7 | Virginia.....7 |
| Minnesota.....5 | Princeton.....5 | Northwestern (Ill.).....6 | Boston Univ.....6 | Western Reserve.....7 |
| Toronto.....5 | Georgia.....5 | Ohio Northern.....6 | Colby.....6 | Bates.....6 |
| Clark.....4 | Wisconsin.....5 | Chicago.....6 | Dalhousie.....6 | Clark.....6 |
| Colby.....4 | Wealeyan (Conn.).....5 | Cornell Univ.....5 | Indiana.....6 | Tulane.....6 |
| DePaul.....4 | Acadia.....4 | Hamilton.....5 | Kansas.....6 | Pennsylvania.....6 |
| Ohio.....4 | Amherst.....4 | Cornell Univ.....5 | Leland Stanford Jr.....6 | Leland Stanford Jr.....6 |
| Princeton.....4 | Cornell.....4 | Ohio State.....5 | Mass. Inst. of Tech.....6 | Hobart.....5 |
| Rhode Island State.....4 | Dalhousie.....4 | Ohio Wesleyan.....5 | Ohio Univ.....5 | Leland Stanford Jr.....5 |
| Tulane.....4 | Denison.....4 | Swarthmore.....5 | Bucknell.....5 | Oberlin.....5 |
| Georgia.....4 | Hobart.....4 | Kansas.....5 | Chicago.....5 | Texas.....5 |
| Maine.....4 | Ohio Univ.....4 | Pennsylvania.....5 | Northwestern (Ill.).....5 | Allegheny.....4 |
| North Carolina.....4 | Ohio Wesleyan.....4 | Colby.....5 | Oberlin.....4 | Colby.....4 |
| Texas.....4 | Illinois.....4 | Queen's Agri. Coll.....4 | Boston Coll.....4 | Col of the City of New York.....4 |
| Wealeyan (Conn.).....4 | Kansas.....4 | Mass. Agri. Coll.....4 | Hamilton.....4 | Dalhousie.....4 |
| | Michigan.....4 | Illinois.....4 | Hobart.....4 | Lafayette.....4 |
| | Missouri.....4 | North Carolina.....4 | McGill.....4 | Mass. Agri. Coll.....4 |
| | Washington and Lee.....4 | Vermont.....4 | Pomona.....4 | Nebraska.....4 |
| | | Wealeyan (Conn.).....4 | Trinity (Conn.).....4 | Washington.....4 |
| | | Western Reserve.....4 | Vanderbilt.....4 | Wealeyan (Conn.).....4 |
| | | | Virginia.....4 | West Virginia.....4 |
| | | | | |
| Total Membership.....504 |529 |573 |652 |650 |

TABLE VI. — HOLDERS OF DEGREES FROM HARVARD AND
TWENTY-FOUR OTHER COLLEGES AND UNIVERSITIES:
1901-1902 — 1916-17

| | 1901-02 | 1902-03 | 1903-04 | 1904-05 | 1905-06 | 1906-07 | 1907-08 | 1908-09 | 1909-10 | 1910-11 | 1911-12 | 1912-13 | 1913-14 | 1914-15 | 1915-16 | 1916-17 | Total |
|------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|
| Harvard | 189 | 174 | 232 | 192 | 197 | 185 | 182 | 182 | 199 | 218 | 211 | 215 | 239 | 232 | 269 | 279 | 3395 |
| Dartmouth | 5 | 7 | 12 | 9 | 6 | 10 | 8 | 9 | 10 | 11 | 13 | 21 | 17 | 22 | 17 | 22 | 199 |
| Yale | 4 | 6 | 9 | 7 | 8 | 7 | 6 | 5 | 7 | 7 | 16 | 16 | 14 | 15 | 18 | 20 | 165 |
| Amherst | 8 | 10 | 14 | 8 | 8 | 7 | 10 | 9 | 14 | 8 | 5 | 5 | 4 | 8 | 14 | 7 | 139 |
| Brown | 8 | 11 | 12 | 7 | 12 | 4 | 8 | 9 | 6 | 7 | 5 | 7 | 6 | 12 | 11 | 11 | 136 |
| Bowdoin | 8 | 7 | 7 | 5 | 3 | 5 | 6 | 8 | 7 | 9 | 10 | 10 | 10 | 13 | 12 | 11 | 131 |
| Williams | 3 | 4 | 7 | 7 | 7 | 3 | 7 | 6 | 8 | 6 | 7 | 9 | 11 | 10 | 7 | 10 | 112 |
| Michigan | 2 | 7 | 10 | 5 | 10 | 6 | 9 | 7 | 6 | 3 | 7 | 6 | 4 | 7 | 8 | 11 | 108 |
| Haverford | 4 | 5 | 7 | 5 | 5 | 5 | 3 | 6 | 8 | 8 | 8 | 6 | 11 | 7 | 8 | 8 | 104 |
| California | 7 | 6 | 4 | 3 | 3 | 5 | 6 | 4 | 5 | 4 | 6 | 7 | 9 | 12 | 14 | 19 | 114 |
| Boston Univ. | 1 | 1 | 5 | 5 | 7 | 8 | 6 | 5 | 3 | 7 | 8 | 7 | 8 | 10 | 6 | 7 | 94 |
| Ohio Wesleyan | 5 | 5 | 8 | 14 | 12 | 4 | 5 | 3 | 4 | 4 | 5 | .. | 4 | 5 | 2 | 3 | 83 |
| Chicago | 3 | 7 | 1 | 3 | 4 | 4 | 4 | 5 | 8 | 8 | 5 | 7 | 9 | 6 | 5 | 10 | 89 |
| Toronto | 6 | 3 | 4 | 5 | 3 | 8 | 4 | 5 | 2 | 6 | 7 | 5 | 3 | 2 | 3 | 2 | 68 |
| Kansas | 2 | 3 | 3 | 2 | 3 | 5 | 3 | 4 | 7 | 5 | 7 | 8 | 4 | 5 | 6 | 2 | 69 |
| Northwestern | 1 | 6 | 2 | 2 | 1 | 1 | 2 | 6 | 6 | 8 | 6 | 9 | 2 | 6 | 5 | 7 | 70 |
| Tufts | 4 | 6 | 6 | 3 | 1 | 2 | .. | 4 | 5 | 5 | 2 | 5 | 7 | 9 | 10 | 12 | 81 |
| Princeton | 4 | 3 | 2 | .. | 3 | 4 | 4 | 7 | 8 | 3 | 3 | 4 | 5 | 11 | 13 | 10 | 84 |
| Texas | 3 | 5 | 5 | 3 | 1 | 2 | 6 | 5 | 6 | 3 | 2 | 4 | 7 | 7 | 10 | 5 | 74 |
| Columbia | 1 | 6 | 5 | 1 | 4 | 7 | 5 | 11 | 5 | 5 | 4 | .. | 3 | 6 | 11 | 13 | 87 |
| Indiana | 3 | 3 | 2 | 3 | 4 | 5 | 5 | 3 | 6 | 6 | 8 | .. | 5 | 2 | 6 | 2 | 63 |
| Mass. Inst. of Tech. | 1 | 1 | 1 | 1 | 2 | 2 | 4 | 6 | 6 | 5 | 4 | 5 | 8 | 9 | 6 | 7 | 68 |
| Dalhousie | 5 | 2 | 2 | 4 | 2 | 3 | 3 | 3 | 4 | 4 | 5 | 4 | 2 | 6 | 4 | 5 | 55 |
| Leland Stanford Jr. | 3 | 6 | 4 | 5 | 3 | 3 | 4 | 1 | 1 | 4 | 3 | .. | 1 | 6 | 6 | 5 | 55 |
| Oberlin | 4 | 1 | .. | 1 | 3 | 3 | 3 | 4 | 4 | .. | 2 | .. | 5 | 7 | 5 | 5 | 47 |
| Total Membership | 315 | 325 | 427 | 393 | 409 | 407 | 424 | 429 | 452 | 484 | 475 | 504 | 529 | 573 | 652 | 650 | |

TABLE VII. — BIRTHPLACES OF GRADUATE STUDENTS:
1914-17

| | 1914-15 | 1915-16 | 1916-17 |
|--|---------|---------|---------|
| Students born in the New England States | 190 | 194 | 204 |
| Students born in other Northern States east of the Mississippi River | 187 | 232 | 221 |
| Students born in Southern States east of the Mississippi River | 32 | 38 | 41 |
| Students born in States west of the Mississippi River | 83 | 88 | 97 |
| Students born in the Dominion of Canada | 25 | 23 | 22 |
| Students born in other foreign countries | 56 | 77 | 65 |
| Total number of students | 573 | 652 | 650 |
| Percentage of students born in New England | 33 | 30 | 31 |
| Percentage of students born elsewhere | 67 | 70 | 69 |

Tables VIII and IX set forth the number of candidates recommended for higher degrees and their distribution throughout the various Divisions and Departments.

TABLE VIII. — RECOMMENDATIONS FOR DEGREES IN 1915-17

| | 1915 | 1916 | 1917 |
|--|------|------|-------|
| I. Graduate Students recommended for A.M..... | 154 | 145 | 144 |
| Graduate Students recommended for Ph.D..... | 58 | 52 | 67 |
| | —212 | —197 | —211 |
| II. Divinity Students recommended for A.M. on approved courses of study..... | 1 | 1 | .. |
| Divinity Students recommended for Ph.D. on approved courses of study..... | .. 1 | .. 1 | .. .. |
| Total number recommended for A.M. and Ph.D. | 213 | 198 | 211 |
| III. Harvard Bachelors of Arts or Science, not previously graduated elsewhere..... | 51 | 61 | 52 |
| Harvard Bachelors of Arts or Science, previously graduated elsewhere..... | 1 | .. | 1 |
| Students not Harvard Bachelors of Arts or Science..... | 161 | 137 | 158 |
| | —213 | —198 | —211 |

TABLE IX. — DIVISIONS AND DEPARTMENTS IN WHICH RECOMMENDATIONS FOR THE HIGHER DEGREES WERE MADE IN 1917

| Division | Department | Degrees | |
|---|------------|---------|-------|
| | | A.M. | Ph.D. |
| Semitic Languages and History..... | | .. | .. |
| Ancient Languages..... | | 6 | 3 |
| Modern Languages: | | | |
| English..... | | 33 | 7 |
| Germanic Languages and Literatures..... | | 3 | 2 |
| French, and other Romance Languages..... | | 5 | 4 |
| Comparative Literature..... | | 1 | 1 |
| In more than one Department..... | | 2 | .. |
| Total in Modern Languages..... | | —44 | —14 |
| History, Government, and Economics: | | | |
| History..... | | 15 | 1 |
| Government..... | | 6 | 2 |
| Economics..... | | 7 | 2 |
| Total in History, Government, and Economics | | —28 | — 5 |
| Philosophy..... | | 13 | 7 |
| Education..... | | 15 | 2 |
| Fine Arts..... | | 3 | .. |
| Music..... | | 1 | .. |
| Mathematics..... | | 6 | 3 |
| Physics..... | | 2 | 5 |
| Chemistry..... | | 16 | 10 |
| Biology: | | | |
| Botany..... | | 1 | 8 |
| Zoölogy..... | | 2 | 3 |
| Total in Biology..... | | — 3 | —11 |
| Geology..... | | 1 | 3 |
| Anthropology..... | | 2 | 3 |
| Medical Sciences..... | | 3 | 1 |
| Undivisional..... | | 1 | .. |
| Total..... | | 144 | 67 |

The degree of Doctor of Philosophy was conferred upon the sixty-seven men named below.

JOHN EDWARD ANDERSON, A.B. (*Univ. of Wyoming*) 1914, A.M. (*Harvard Univ.*) 1915.

Subject, Philosophy. *Special Field*, Psychology. *Thesis*, "Circulatory Reactions during Physical and Mental Work." First Lieutenant, Sanitary Corps, Base Hospital, Camp Devens, Mass.

WILLIAM ANDERSON, A.B. (*Univ. of Minnesota*) 1913, A.M. (*Harvard Univ.*) 1914.

Subject, Political Science. *Special Field*, Municipal Government. *Thesis*, "The Regulation of Gas and Electric Light Companies in Massachusetts." Assistant Professor of Political Science, University of Minnesota.

NEIL COLE ARVIN, A.B. (*Lake Forest Coll.*) 1911, A.M. (*Harvard Univ.*) 1914.

Subject, Philology. *Special Field*, Romance Philology. *Thesis*, "The Comédies Vaudevilles of Eugène Scribe." Instructor in French, Rice Institute, Houston, Texas.

JOSEPH MOORHEAD BEATTY, JR., A.B. (*Haverford Coll.*) 1913, A.M. (*Harvard Univ.*) 1914.

Subject, Philology. *Special Field*, English Philology. *Thesis*, "Charles Churchill, Satirist." Instructor in English, Goucher College.

ARMAN EDWARD BECKER, A.B. (*Marietta Coll.*) 1909, A.M. (*Harvard Univ.*) 1910.

Subject, Physics. *Special Field*, Light. *Thesis*, "An Extension of Series Spectra, and an Experimental Study of a Theory of the Complex Zeeman Effect." Assistant Physicist, National Advisory Committee for Aeronautics, Washington, D. C.

SIDNEY FAY BLAKE, A.B. 1913 (1912), A.M. 1913.

Subject, Biology. *Special Field*, Botany. *Thesis*, "A Revision of the Genus *Viguiera*." Assistant Botanist, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C.

JAMES BEEBEE BRINSMADE, A.B. (*Yale Univ.*) 1906, A.M. (*Harvard Univ.*) 1913.

Subject, Physics. *Special Field*, Light. *Thesis*, "Studies in the Absorption of Light by Gases and Crystals." Instructor in Physics, Harvard University.

JAMES HOWARD BROWN, S.B. (*Illinois Coll.*) 1906, S.M. (*Univ. of Illinois*) 1909.

Subject, Medical Sciences. *Special Field*, Comparative Pathology. *Thesis*, "The Use of Blood Agar for the Study of Streptococci." Assistant in the Department of Animal Pathology, Rockefeller Institute for Medical Research, Princeton, N. J.

WILLIAM ROBERTSON BROWN, A.B. (*Univ. of Texas*) 1907, A.M. (*Harvard Univ.*) 1915.

Subject, Philology. *Special Field*, English Philology. *Thesis*, "The Rise of the Educational Novel in Great Britain, with special Reference to Henry Brooke." Instructor in English, Western State Normal School, Kalamazoo, Mich.

LLEWELLYN MORGAN BUELL, A.B. (*Cornell Univ.*) 1910, A.M. (*Harvard Univ.*) 1911.

Subject, Philology. *Special Field*, English Philology. *Thesis*, "Personification in the Chief English Poets, 1725-1824." First Lieutenant, Aviation Section, Signal Officers' Reserve Corps, at present stationed at Washington, D. C.

ARTHUR BURKHARD, A.B. (*Univ. of Minnesota*) 1911, A.M. (*ibid.*) 1912.

Subject, Philology. *Special Field*, Germanic Philology. *Thesis*, "Concerning the Style of Conrad Ferdinand Meyer." Student, Cadet School of the First Naval District, Cambridge, Mass.

FREDERIC KING BUTTERS, S.B. (*Univ. of Minnesota*) 1899, A.B. (*Harvard Univ.*) 1900.

Subject, Biology. *Special Field*, Botany. *Thesis*, "Studies in the Geographical Relations of Plants of the Selkirk Mountains." Assistant Professor of Botany, University of Minnesota.

EMMETT KIRKENDALL CARVER, A.B. 1914.

Subject, Chemistry. Special Field, Physical Chemistry. Thesis, I. "Measurements of the Ferrous-Ferrio Potential with Mercury Electrodes." II. "Surface Tension Measurements by the Capillary Rise Method." III. "The Effect of Dissolved Air on the Freezing Point of Benzene." Engaged in war research work, New York, N. Y.

EDWIN MARTIN CHAMBERLIN, A.B. 1911, A.M. 1914.

Subject, Education. Special Field, Educational Psychology. Thesis, "An Experimental Study in Formal Discipline." Supervising Principal, Edgewood Public Schools, Pittsburgh, Pa.

JOSEPH ISRAEL CHESKIS, A.M. 1915.

Subject, Philology. Special Field, Romance Philology. Thesis, "Philological Studies in Judeo-Spanish." Instructor in Romance Languages, State University of Iowa.

ROBERT VINCENT CRAM, A.B. 1907, A.M. 1908.

Subject, Philology. Special Field, Classical Philology. Thesis, "De Vicis Atticis." Orderly, Medical Reserve Corps, waiting for call to service. Fifth-year Graduate Student.

TENNEY LOMBARD DAVIS, S.B. (Mass. Institute of Technology) 1913, A.M. (Harvard Univ.) 1915.

Subject, Chemistry. Special Field, Organic Chemistry. Thesis, I. "Phenyl-methylbenzoyl-trimethylene Dicarboxic Acid Methyl Ester." II. "The Reduction of Delta Ketonic Acids. Diphenylbutene Acid and its Comportment in Addition Reactions." First Lieutenant, Ordnance Department, on duty in New York, N. Y.

CHARLES DRECHSLER, S.B. (Univ. of Wisconsin) 1913, S.M. (ibid.) 1914.

Subject, Biology. Special Field, Botany. Thesis, "Studies on the Genus Actinomyces, with special Reference to its Development and Morphology." Field Assistant, Bureau of Plant Industry, U.S. Department of Agriculture, Kansas State Agricultural College.

RALPH MONROE EATON, LITT.B. (Univ. of California) 1914, A.M. (Harvard Univ.) 1915.

Subject, Philosophy. Special Field, Logic. Thesis, "The Method of Induction." Second Lieutenant, American Expeditionary Force, France.

WILLARD EDWARD FARNHAM, A.B. (Univ. of Wisconsin) 1912, A.M. (ibid.) 1914.

Subject, Philology. Special Field, English Philology. Thesis, "Chaucer's Parlement of Foules and the Contending Lovers." Instructor in English, University of Wisconsin.

ERNEST FLAMMER, S.B. (Univ. of California) 1903.

Subject, Physics. Special Field, Electricity. Thesis, "Electric Circuits with Variable Resistances." Assistant Professor of Physics, Queen's University.

LESTER R FORD, A.B. (Univ. of Missouri) 1911, A.M. (ibid.) 1912, A.M. (Harvard Univ.) 1913.

Subject, Mathematics. Special Field, Analysis. Thesis, "On Rational Approximations to an Irrational Complex Number." In the 32d Company, Coast Artillery Corps, Fort Standish, Boston, Mass.

CARL CHESWELL FORSAITH, A.B. (Dartmouth Coll.) 1913, A.M. (Harvard Univ.) 1914.

Subject, Biology. Special Field, Botany. Thesis, "A Report on some Allocthonous Peat Deposits of Florida." Instructor in Forest Technology, New York State College of Forestry, Syracuse University.

EMILIO GOGGIO, A.B. 1909, A.B. (Univ. of Toronto) 1910, A.M. (ibid.) 1910.

Subject, Philology. Special Field, Romance Philology. Thesis, "Italian Influences on Longfellow." Assistant Professor of French and Italian, University of Washington.

WILLIAM CHASE GREENE, A.B. 1911, A.B. (Univ. of Oxford) 1914, A.M. (Harvard Univ.) 1916.

Subject, Philology. Special Field, Classical Philology. Thesis, "Quid de poetis Plato censuerit." Master in Greek, Groton School, Mass.

- CARL EUGEN GUTHE, S.B. (*Univ. of Michigan*) 1914, A.M. (*Harvard Univ.*) 1915.
Subject, Anthropology. Special Field, American Archaeology. Thesis, "The Lunar Count of the Mayas." Acting Director of the Andover-Pecos Archaeological Expedition.
- ALBERT RICHARD CARL HAAS, S.B. (*Pennsylvania State Coll.*) 1913, S.M. (*ibid.*) 1914, A.M. (*Harvard Univ.*) 1916.
Subject, Biology. Special Field, Botany. Thesis, "Studies of Plant Metabolism in Relation to Hydrogen Ion Concentration." Frederick Sheldon Travelling Fellow, at Berkeley, Cal.
- NORRIS FOLGER HALL, A.B. (*Haverford Coll.*) 1913, A.M. (*ibid.*) 1913, A.M. (*Harvard Univ.*) 1915.
Subject, Chemistry. Special Field, Physical Chemistry. Thesis, I. "The Silver Coulometer." II. "The Lead Isotropes." III. "On Draining Crystals." Junior Chemist (Gas Warfare Research), U. S. Bureau of Mines, Washington, D. C.
- SELIG HECHT, S.B. (*Coll. of the City of New York*) 1913.
Subject, Biology. Special Field, Zoölogy. Thesis, "The Physiology of Ascidia atra Lesueur." Instructor in Biochemistry and Physiology, Creighton University.
- GEORGE ALBERT HILL, S.B. (*Worcester Polytechnic Institute*) 1913, A.M. (*Harvard Univ.*) 1914.
Subject, Chemistry. Special Field, Organic Chemistry. Thesis, I. "The Reactions of 2-Metanitrophenyl-3-benzoyl Cyclopropane Dicarboxylic Acid." II. "The Relative Activity of the Various Hydrogens in certain Delta Ketonic Esters." Instructor in Chemistry, Harvard University.
- CARL SHERMAN HOAR, S.B. (*Dartmouth Coll.*) 1911, A.M. (*Harvard Univ.*) 1913.
Subject, Biology. Special Field, Botany. Thesis, "The Anatomy and Phylogenetic Position of the Betulaceae." Corporal, Medical Corps, Base Hospital, Camp Devens, Mass.
- JAMES HALLETT HODGES, A.B. 1914, A.M. 1915.
Subject, Chemistry. Special Field, Physical Chemistry. Thesis, I. "The Compressibility of certain Elements and Compounds." II. "The Atomic Weight of Zinc." Corporal, Overseas Repair Section No. 1, Gas Defence Service, Sanitary Corps, temporarily at Allentown, Pa.
- MINFU TAH HU, A.B. (*Cornell Univ.*) 1914.
Subject, Mathematics. Special Field, Analysis. Thesis, "Linear Integro-Differential Equations with a Boundary Condition." Shanghai, China.
- RICHARD FAY JACKSON, A.B. 1903.
Subject, Chemistry. Special Field, Physical Chemistry. Thesis, "Saccharimetric Studies." Associate Chemist, Bureau of Standards, Department of Commerce, Washington, D. C.
- EDWIN CRAWFORD KEMBLE, S.B. (*Case School of Applied Science*) 1911, A.M. (*Harvard Univ.*) 1914.
Subject, Physics. Special Field, Theoretical Physics. Thesis, "Studies in the Application of the Quantum Hypothesis to the Kinetic Theory of Gases and to the Theory of their Infra-Red Absorption Bands." Mathematician-Physicist, Curtiss Aeroplane Co., Buffalo, N. Y.
- ALFRED THEODORE LARSON, S.B. (*Carleton Coll.*) 1908, S.M. (*ibid.*) 1912.
Subject, Chemistry. Special Field, Physical Chemistry. Thesis, I. "Oxidation Potentials of Cobaltamines in Ammonia." II. "The Thomson Effect in Electrolytes." III. "Temperature Coefficients of Reference Electrodes." Assistant Professor of Chemistry, Carleton College.
- STURGIS ELLENO LEAVITT, A.B. (*Bowdoin Coll.*) 1908, A.M. (*Harvard Univ.*) 1913.
Subject, Philology. Special Field, Romance Philology. Thesis, "Scarron in England, 1656-1800." Assistant Professor of Romance Languages, University of North Carolina.

EDMOND EARLE LINCOLN, A.B. (*Ohio Wesleyan Univ.*) 1909, A.B. (*Univ. of Oxford*) 1910, A.M. (*ibid.*) 1914.

Subject, Economics. Special Field, Public Finance. Thesis, "The Results of Municipal Electric Lighting in Massachusetts." Instructor in Economics, and Tutor in the Division of History, Government, and Economics, Harvard University.

FRANCIS WHEELER LOOMIS, A.B. 1910, A.M. 1913.

Subject, Physics. Special Field, Heat. Thesis, "The Heat of Vaporisation of Mercury." Research Physicist, Westinghouse Lamp Co., Bloomfield, N. J.

DONALD HAMILTON McLAUGHLIN, S.B. (*Univ. of California*) 1914, A.M. (*Harvard Univ.*) 1915.

Subject, Geology. Special Field, Economic Geology. Thesis, "The Occurrence and Significance of Bornite." Second Lieutenant, 63d Infantry, temporarily stationed at the Presidio, San Francisco, Cal.

WILLIAM HUBBS MECHLING, S.B. (*Univ. of Pennsylvania*) 1910, A.M. (*ibid.*) 1910, A.M. (*Harvard Univ.*) 1913, LITT.B. (*Univ. of Oxford*) 1916.

Subject, Anthropology. Special Field, American Ethnology. Thesis, "The Social and Religious Life of the Malecites and Micmacs." Assistant Curator of North American Ethnology, Field Columbian Museum, Chicago, Ill., on leave of absence, and engaged as Assistant on the War Trade Board, Washington, D. C.

DWIGHT ELMER MINNICH, A.B. (*Miami Univ.*) 1910.

Subject, Biology. Special Field, Zoology. Thesis, "The Photic Reactions of the Honey Bee, Apis mellifera: A Quantitative Study of Circus Movements." Parker Travelling Fellow, at Berkeley, Cal.

JOHN ROBERT MOORE, A.B. (*Univ. of Missouri*) 1910, A.M. (*ibid.*) 1914.

Subject, Philology. Special Field, English Philology. Thesis, "The Song in the English Drama to 1642." Assistant Professor of English, Delaware College.

HAROLD CALVIN MARSTON MORSE, A.B. (*Colby Coll.*) 1914, A.M. (*Harvard Univ.*) 1915.

Subject, Mathematics. Special Field, Analysis. Thesis, "Certain Types of Geodesic Motion on a Surface of Negative Curvature." With the Ambulance Corps, American Expeditionary Force, France.

JAMES BUELL MUNN, A.B. 1912, A.M. 1915.

Subject, Philology. Special Field, Comparative Literature. Thesis, "The Development of Plot and Characterisation in Early Greek and Early Elizabethan Tragedy, with especial Reference to Aeschylus and Marlowe." Second Lieutenant, Adjutant, Third Battalion, 301st Infantry, Camp Devens, Mass., serving as Regimental Adjutant.

RICHARD AGER NEWHALL, A.B. (*Univ. of Minnesota*) 1910, A.M. (*ibid.*) 1911, A.M. (*Harvard Univ.*) 1914.

Subject, History. Special Field, History of France. Thesis, "The English in Normandy, 1416-1424." Second Lieutenant, 28th Infantry, American Expeditionary Force, France.

CHARLES ROSS OWENS, A.B. (*Queen's Univ.*) 1911, A.M. (*ibid.*) 1912.

Subject, Philology. Special Field, Classical Philology. Thesis, "Quo modo tragici Graeci res naturales tractaverint." Lecturer on Latin, Queen's University.

LEON WOODMAN PARSONS, S.B. (*Mass. Institute of Technology*) 1913, A.M. (*Harvard Univ.*) 1916.

Subject, Chemistry. Special Field, Physical Chemistry. Thesis, I. "A Revision of the Atomic Weight of Lead." II. "A Revision of the Atomic Weight of Nickel." III. "Gaseous Impurities in Iodine and Silver." Instructor in Chemistry, College of Wooster.

SIDNEY LEAVITT PRESSEY, A.B. (*Williams Coll.*) 1912, A.M. (*Harvard Univ.*) 1915.

Subject, Philosophy. Special Field, Psychology. Thesis, "The Influence of Color upon Mental and Motor Efficiency." Instructor in Psychology, Indiana University.

ALFRED CLARENCE REDFIELD, S.B. 1914 (1913).

Subject, Biology. Special Field, Zoology. Thesis, "The Physiology of the Melanophores of the Horned Toad." Instructor in Physiology, Harvard University.

WESLEY EVERETT RICH, A.B. (Wesleyan Univ., Conn.) 1911, A.M. (ibid.) 1912.

Subject, Economics. Special Field, Public Finance. Thesis, "A History of the United States Post Office to the Year 1829." Associate Professor of Economics and Social Science, Wesleyan University.

ABRAHAM AARON ROBACK, A.B. (McGill Univ.) 1912, A.M. (Harvard Univ.) 1913.

Subject, Philosophy. Special Field, Psychology. Thesis, "The Mutual Interference of Will Impulses." Instructor in Psychology, University of Pittsburgh.

DANIEL SOMMER ROBINSON, A.B. (Butler Coll.) 1910, A.M. (Yale Univ.) 1911, S.T.B. (ibid.) 1912.

Subject, Philosophy. Special Field, Logic. Thesis, "The Place of Inference in Logical Theory." Pastor, South Congregational Church, Newport, N. H.

HYDER EDWARD ROLLINS, A.B. (Southwestern Univ.) 1910, A.M. (Univ. of Texas) 1912, A.M. (Harvard Univ.) 1916.

Subject, Philology. Special Field, English Philology. Thesis, "A History of the English Black-Letter Broadside Ballad." In the Signal Corps, United States Reserve Force, at present studying for a commission at College Station, Tex.

HAROLD ST. JOHN, A.B. 1914, A.M. 1915.

Subject, Botany. Special Field, Botany. Thesis, "A Report on a Botanical Exploration of the South Shore of the Labrador Peninsula, Saguenay County, Quebec, including an Annotated List of the Species of Vascular Plants." Assistant at the Gray Herbarium, Harvard University.

ANTONIOS PANAYOTOU SAVVIDIS, A.B. (Robert Coll.) 1900, A.M. (Harvard Univ.) 1911.

Subject, Education. Special Field, Educational Administration. Thesis, "An Expository, Critical, and Constructive Study of Education in Modern Greece." Lecturer on the History of Education, Simmons College.

SAMUEL SHELLABARGER, A.B. (Princeton Univ.) 1909.

Subject, Philology. Special Field, English Philology. Thesis, "A Thesaurus of the Figures of Speech in Anglo-Saxon and the Poetic Edda." First Lieutenant, Trench Warfare Branch, Ordnance Department, Washington, D. C.

FRANK JASON SMILEY, A.B. (Leland Stanford Jr. Univ.) 1913, A.M. (ibid.) 1914, A.M. (Harvard Univ.) 1915.

Subject, Biology. Special Field, Botany. Thesis, "A Report upon the Boreal Flora of the Sierra Nevada Mountains of California." Assistant Professor of Botany and Geology, Occidental College.

JOHN AUSTIN SPAULDING, A.B. 1912 (1911), A.M. 1912.

Subject, Philology. Special Field, Germanic Philology. Thesis, "The Lower Middle Class in Tieck's Writings." Acting Corporal, 26th Company, Depot Brigade, Camp Devens, Mass.

RUSSELL MCCULLOCH STORY, A.B. (Monmouth Coll.) 1904, A.M. (Harvard Univ.) 1908.

Subject, Political Science. Special Field, Municipal Government. Thesis, "The Executive Office in American Cities." Associate in Political Science, University of Illinois, on leave of absence for 1917-18, and engaged in Y. M. C. A. work in Russia.

NENOZO UTSURIKAWA, PH.B. (Univ. of Chicago) 1914.

Subject, Anthropology. Special Field, Ethnology. Thesis, "Some Aspects of the Decorative Art of Indonesia: A Study in Ethnographic Relation." Frederick Sheldon Traveling Fellow, in Southern Asia.

ALFRED WANDTKE, A.B. (Bowdoin Coll.) 1910.

Subject, Geology. Special Field, Petrography and Economic Geology. Thesis, "The Geology of the Portsmouth Basin, Maine and New Hampshire." Geologist, Pilares Mine, Moctezuma Copper Co., Sonora, Mex.

WESLEY RAYMOND WELLS, PH.B. (*Univ. of Vermont*) 1913, A.M. (*Harvard Univ.*) 1914.

Subject, Philosophy. *Special Field*, Ethics. *Thesis*, "A Behavioristic Study of Religious Values." Instructor in Education, Washington University.

HENRY NELSON WIEMAN, A.B. (*Park Coll.*) 1907.

Subject, Philosophy. *Special Field*, Ethics. *Thesis*, "The Organization of Interests." Assistant Professor of Philosophy and Sociology, Occidental College.

EDWARD WIGGLESWORTH, A.B. 1908, A.M. 1909.

Subject, Geology. *Special Field*, General Geology. *Thesis*, "The Geology of Martha's Vineyard, Massachusetts." Chairman of the Executive Committee and Keeper of the Geological Collections, Boston Society of Natural History, Boston, Mass.

HENRY EARNEST WILLIAMS, A.B. (*Boston Univ.*) 1909, A.M. (*Columbia Univ.*) 1913.

Subject, Chemistry. *Special Field*, Organic Chemistry. *Thesis*, "A Study of Cyclopropane Derivatives containing Nitro Groups." Research Chemist, S. D. Warren & Co., Boston, Mass.

VICTOR YNGVE, S.B. (*Univ. of Minnesota*) 1913, S.M. (*ibid.*) 1914.

Subject, Chemistry. *Special Field*, Physical Chemistry. *Thesis*, "Physico-Chemical Methods of Fixing Temperatures." Research Chemist, Oldbury Electrochemical Co., Niagara Falls, N. Y.

TABLE X. — FELLOWSHIPS AND SCHOLARSHIPS (1915-18) ¹

1. *Applications and Appointments*

| | 1915-16 | 1916-17 | 1917-18 |
|---|---------|---------|---------|
| Spring applicants for reappointments or promotion..... | 84 | 82 | 73 |
| Spring applicants for a first appointment..... | 288 | 357 | 320 |
| Later applicants..... | 66 | 47 | 56 |
| | —438 | —486 | —449 |
| Appointed to fellowships..... | 31 | 38 | 26 |
| Appointed to scholarships..... | 89 | 84 | 56 |
| Appointed instructors, teaching fellows, or assistants..... | 45 | 39 | 14 |
| | —165 | —161 | —96 |
| Deduct for repetitions..... | 2 | 0 | 0 |
| | —163 | —161 | —96 |
| Entered or continued in the Graduate School of Arts and Sciences without receiving any of the above-named appointments..... | 72 | 74 | 35 |
| Entered undergraduate classes of Harvard College..... | 1 | 2 | 1 |
| Entered other Departments of the University..... | 5 | 14 | 6 |
| | —78 | —90 | —42 |
| Applicants who were at the University in the year following their applications..... | 243 | 251 | 138 |
| Applicants not at the University in that year..... | 195 | 235 | 311 |
| | —438 | —486 | —449 |

¹ This Table is based primarily upon the work of the Committee on Fellowships and other Aids for Graduate Students, and therefore does not always represent the total number of appointments awarded to Graduate Students in any given year, since certain appointments are made by the Corporation upon the direct recommendation of the Committee on the Sheldon and on other General Fellowships and in similar ways. It is, however, sufficiently accurate for purposes of comparison.

2. Classification of Applicants and Appointees

| | 1915-16 | | 1916-17 | | 1917-18 | |
|---|------------|------------|------------|------------|------------|------------|
| | Applicants | Appointees | Applicants | Appointees | Applicants | Appointees |
| Students of Philology | 117 | 35 | 154 | 35 | 148 | 26 |
| Students of History, Political Science, Philosophy, or Education | 161 | 46 | 179 | 49 | 168 | 34 |
| Students of Mathematics, Physics, or Chemistry | 99 | 25 | 87 | 23 | 74 | 9 |
| Students of Natural History | 52 | 11 | 57 | 11 | 44 | 11 |
| Students of other branches, or unclassified. . . | 9 | 3 | 9 | 4 | 15 | 2 |
| | 438 | 120 | 486 | 122 | 449 | 82 |
| Students in Graduate School of Arts and Sciences. | 145 | 51 | 140 | 48 | 138 | 36 |
| Students in Harvard College. | 21 | 4 | 31 | 4 | 31 | 4 |
| Students in other Departments of the University | 2 | ... | 5 | 1 | 1 | ... |
| Former Students in some Department of the University | 27 | 12 | 51 | 18 | 36 | 8 |
| Persons never previously members of the University | 243 | 53 | 259 | 51 | 243 | 34 |
| | 438 | 120 | 486 | 122 | 449 | 82 |
| *Harvard Bachelors of Arts or Science, not previously graduated elsewhere | 37 | 13 | 47 | 15 | 42 | 6 |
| Harvard Bachelors of Arts or Science previously graduated elsewhere | ... | ... | ... | ... | ... | ... |
| Graduates of other institutions, not Harvard Bachelors of Arts or Science | 315 | 81 | 334 | 80 | 303 | 61 |
| Undergraduates of Harvard College | 21 | 5 | 31 | 4 | 27 | 4 |
| Undergraduates of other institutions and other non-graduates | 65 | 21 | 74 | 23 | 77 | 11 |
| | 438 | 120 | 486 | 122 | 449 | 82 |

Forty-six fellowships were assigned for the year 1916-17, including three John Harvard Fellowships without stipend. There were twenty-nine resident and seventeen non-resident appointments. A list of the incumbents follows. After the name of each fellow is given the name of his fellowship, the subject that he studied, and his present occupation. The place of study of the non-resident fellows is also indicated.

* Harvard College Seniors on leave of absence are reckoned as graduates of Harvard College.

TRAVELLING FELLOWS

RAYMOND WOODWARD BRINK, Frederick Sheldon Fellow. Mathematics. Paris.

Instructor in Mathematics, University of Minnesota.

KENNETH JOHN CONANT, Rogers Fellow. Fine Arts. Rome.

Austin Scholar in Architecture. Second-year Student in the School of Architecture.

WILLIAM JOHN CROZIER, Frederick Sheldon Fellow. Zoölogy. Bermuda.

Frederick Sheldon Fellow, at Bermuda.

TENNEY LOMBARD DAVIS, Frederick Sheldon Fellow. Philosophy. Berkeley, Cal.

First Lieutenant, Ordnance Department, on duty in New York, N. Y.

LOUIS PLACK HAMMETT, Frederick Sheldon Fellow. Chemistry. Zürich.

Inspector of Airplanes and Airplane Engines, United States Signal Corps.

SIDNEY FISKE KIMBALL, Sachs Research Fellow. Fine Arts. Washington, D. C.

Assistant Professor of Architecture, University of Michigan.

VICTOR FRITZ LENZEN, Frederick Sheldon Fellow. Philosophy. Cambridge, England.

Assistant in Philosophy.

DONALD HAMILTON McLAUGHLIN, Frederick Sheldon Fellow. Geology.

Second Lieutenant, 63d Infantry, temporarily stationed at the Presidio, San Francisco, Cal.

AMOS PHILIP McMAHON, Frederick Sheldon Fellow. Comparative Literature. Florence.

With the American Telephone and Telegraph Co., New York, N. Y.

JAMES LOUIS MOORE, Bayard Cutting Fellow. History. Zürich.

Assistant in History, Radcliffe College. First-year Student in the Law School.

GEORGE EDWIN PLAISTED, Jr., Rogers Fellow. Fine Arts. Rome.

At the Reserve Officers' Training Camp, Plattsburg, N. Y.

ABRAHAM AARON ROBACK, Parker Fellow. Psychology. Princeton, N. J.

Instructor in Psychology, University of Pittsburgh.

JOHN JOSEPH SAVAGE, Frederick Sheldon Fellow. Classics. London.

Shattuck Scholar. Sixth-year Graduate Student.

ALBERT ABRAHAM SHAPIRO, Frederick Sheldon Fellow. Romance Languages. Santiago.

Instructor in Romance Languages, Municipal University of Akron, O.

GLEN HARWOOD SPANGLER, Parker Fellow. Romance Languages. Seville.

Died at Madrid, December 14, 1916.

REGINALD GEORGE TROTTER, Parker Fellow. History. Toronto.

Austin Teaching Fellow in History.

JOSEPH LEONARD WALSH, Frederick Sheldon Fellow. Mathematics. Madison, Wis.

Instructor in Mathematics. Second-year Graduate Student.

RESIDENT FELLOWS

- JOHN EDWARD ANDERSON**, Philip H. Sears Scholar. Psychology.
First Lieutenant, Sanitary Corps, Base Hospital, Camp Devens, Mass.
- DONALD GROVE BARNES**, Thayer Fellow. History.
Harrison Fellow, University of Pennsylvania.
- JOSEPH MOORHEAD BEATTY, Jr.**, Harris Fellow. English.
Instructor in English, Goucher College.
- NILES CARPENTER, Jr.**, Robert Treat Paine Fellow. Social Ethics, Economics.
Sergeant Quartermaster, Enlisted Reserve Corps.
- YUEN REN CHAO**, James Walker Fellow. Philosophy, Mathematics.
Philip H. Sears Fellow. Third-year Graduate Student.
- HAROLD RUSSELL CHIDSEY**, Henry Bromfield Rogers Memorial Fellow.
Philosophy.
Captain of Infantry, Reserve Officers' Training Camp, Chattanooga, Tenn.
- HERBERT GREENLEAF COAR**, Thayer Fellow (1st half-year). Zoölogy.
Lieutenant, American Expeditionary Force, France.
- ALBERT SPRAGUE COOLIDGE**, John Harvard Fellow. Chemistry.
Junior Chemist (Gas Warfare Research), U. S. Bureau of Mines, Washington, D. C.
- RALPH MONROE EATON**, John Harvard Fellow. Philosophy.
Second Lieutenant of Infantry, American Expeditionary Force, France.
- WILLARD EDWARD FARNHAM**, Christopher M. Weld Scholar. English.
Instructor in English, University of Wisconsin.
- DANIEL FORD**, Willard Scholar. English.
Assistant Professor of Rhetoric, University of Minnesota.
- NORRIS FOLGER HALL**, Edward Austin Fellow. Chemistry.
Junior Chemist (Gas Warfare Research), U. S. Bureau of Mines, Washington, D. C.
- JOSEPH BRADLEY HUBBARD**, Edward Austin Fellow. Economics, History,
Government.
Henry Lee Memorial Fellow. Third-year Graduate Student.
- EDWIN CRAWFORD KEMBLE**, John Tyndall Scholar. Physics.
Mathematician-Physicist, Curtiss Aeroplane Co., Buffalo, N. Y.
- EVERETT WINFRED LOTHROP**, South End House Fellow. Economics, Social
Ethics.
Second Lieutenant, Officers' Reserve Corps, First New Hampshire Infantry.
- FORRESTER MACDONALD**, South End House Fellow. Education.
Fourth-year Graduate Student.
- CLOYD HECK MARVIN**, Thayer Fellow. Education.
Captain, Aviation Section, Signal Officers' Reserve Corps, on duty at Portland, Ore.
- FREDERICK MERK**, Edward Austin Fellow. History, Government, Economics.
Reappointed. Second-year Graduate Student.
- JOHN ROBERT MOORE**, John Thornton Kirkland Fellow. English.
Assistant Professor of English, Delaware College.
- CHARLES ROSS OWENS**, William Watson Goodwin Fellow. Classics.
Lecturer on Latin, Queen's University.
- LEON WOODMAN PARSONS**, Thayer Fellow. Chemistry.
Instructor in Chemistry, College of Wooster.

- SIDNEY LEAVITT PRESSEY**, Francis Parkman Fellow. Psychology.
Instructor in Psychology, Indiana University.
- LAWRENCE D STEEFEL**, John Harvard Fellow. History, Government.
Assistant in History. Third-year Graduate Student.
- RAY ETHAN TORREY**, Thayer Fellow. Botany.
Frederick Sheldon Travelling Fellow, in Texas.
- NENZO UTSURIKAWA**, Hemenway Fellow. Anthropology.
Frederick Sheldon Travelling Fellow, in Southern Asia.
- ARTHUR PRESTON WHITAKER**, Ozias Goodwin Memorial Fellow. History,
Government.
Rhodes Scholar from Tennessee.
- PERCIVAL WILCOX WHITTLESEY**, Thayer Fellow. Philosophy.
Sergeant, Army Intelligence Corps, on duty in Paris, France.
- JOHN HENRY WILLIAMS**, Henry Lee Memorial Fellow. Economics, Govern-
ment.
Frederick Sheldon Travelling Fellow, in Argentina.
- ALFRED SNYDER REED WILSON**, Edward Austin Fellow. Geology.
In the Aviation Instruction Section, American Expeditionary Force, training in Southern
Italy.

The members of the Administrative Board for 1916-17 were Pro-
fessors Mark, G. F. Moore, Kittredge, Kohler, Osgood, Gulick,
Daly, Walz, R. B. Perry, Holmes, and the Dean. Five meetings
were held during the year.

TABLE XI. — CANDIDATES FOR THE MASTER'S DEGREE: 1914-17

| | 1914-15 | 1915-16 | 1916-17 |
|---|---------|---------|---------|
| Whole number of men who applied for, or stated an intention of applying for, the A.M. degree | 219 | 250 | 229 |
| Of these there received the degree in March or June . . . | 139 | 154 | 143 |
| " " " had the degree postponed because of charges unpaid | 12 | 4 | 1 |
| Of these there had the degree postponed to await neces- sary lapse of time from conferral of Bachelor's degree . . | 7 | 5 | 3 |
| Of these there made a sufficient record but did not apply " " " " " " " " voluntarily withdrew | 2 7 | 1 9 | 3 0 |
| Total number who completed work | — 167 | — 173 | — 150 |
| Of the rest there died | 1 | 0 | 0 |
| " " " " withdrew from the School before the end of the year | 12 | 13 | 15 |
| " " " " failed because of incomplete or unsatis- factory records | 34 | 52 | 55 |
| " " " " " " " " French condition | 3 | 4 | 3 |
| " " " " " " " " German condition | 1 | 1 | 2 |
| " " " " " " " " both French and Ger- man conditions | 0 | 2 | 1 |
| " " " " " " " " other conditions | 0 | 2 | 1 |
| " " " " " " " " withdrew from candidacy because of as- sistantships | 0 | 3 | 1 |
| " " " " " " " " were not admitted to candidacy because of amount of outside work | 1 | 0 | 1 |
| Total number who did not complete work | — 52 | — 77 | — 79 |
| | 219 | 250 | 229 |

One of the principal difficulties connected with the administration of the degree of Doctor of Philosophy in American universities has been the printing of the thesis. When this degree was first established in the United States the thesis was ordinarily a brief essay, and it was common to stipulate that it should be printed. In course of time a longer period came to be devoted to the preparation of the thesis, which increased correspondingly in size and often in permanent value, and these changes have complicated the problem of printing. Insistence upon publication as a preliminary condition of receiving the degree has tended either to delay the degree unduly or to hurry forth, merely for the degree's sake, unripe or ill-digested work. Too often the thesis is looked on as a formal requirement rather than as the natural gateway to a career of productive scholarship, and in too many cases the printed product is hasty and inadequate, a discouragement to further work instead of a stimulus. On the other hand, when the degree has been conferred in advance of printing, no effective means have been found to ensure publication at any time. Under either system printing at the expense of the young doctor has become costly and in many cases prohibitive, while the resources of universities and learned societies have proved inadequate for the publication of all meritorious dissertations.

At Harvard the publication of the thesis has never been required. There has been some difference of opinion on this question among members of the Faculty, but in general the view has prevailed that good work would somehow find its way into print without the disadvantages of a forcing process. The absence of any requirement had, however, its inconveniences. The publication of investigations of value was often long delayed, the results of research being meanwhile withheld from the world, while at the same time the thesis lay open in the University Library, with no assurance on the part of the author that his materials might not be appropriated by others. Probably most of the better Harvard theses have found their way into print, but the last edition of the printed "List of Doctors' Theses" (1916) shows that all too many have lain buried in manuscript. What is needed is some method by which the results of investigation may become immediately available in some brief form which will not stand in the way of fuller and more mature publication later.

Accordingly, upon the recommendation of the Administrative Board of the Graduate School, the Faculty of Arts and Sciences and the Governing Boards have voted to require henceforth

that every thesis be accompanied by a summary, not exceeding twelve hundred words, which shall indicate as clearly as possible the methods, material, and results. Each summary must be approved by the Division Committee as adequate and in suitable form for publication, and these summaries are to be printed by the University in an annual volume. The expense of publishing a volume of this sort will be small, and it is highly desirable that the necessary steps be immediately taken for putting this vote into effect.

CHARLES H. HASKINS, *Dean.*

GRADUATE SCHOOL OF BUSINESS ADMINISTRATION

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I have the honor of presenting my report upon the Graduate School of Business Administration for the academic year 1916-17, the ninth year of the School's life.

The number of students registered is shown in the following comparative table, counting as "regular" students college graduates taking full work in the School:—

| Date | Regular Students | | | | Unclassified Students | Special Students | | | Totals |
|---------|------------------|--------|-------|-------|-----------------------|------------------|----|-------|--------|
| | 1st yr. | 2d yr. | Grad. | Total | | A* | B† | Total | |
| 1908-09 | 33 | .. | . | 33 | . | 25 | 22 | 47 | 80 |
| 1909-10 | 42 | 8 | . | 50 | . | 15 | 26 | 41 | 91 |
| 1910-11 | 43 | 10 | . | 53 | . | 15 | 26 | 41 | 94 |
| 1911-12 | 55 | 10 | . | 65 | . | 12 | 19 | 31 | 96 |
| 1912-13 | 77 | 11 | . | 88 | . | 13 | 19 | 32 | 120 |
| 1913-14 | 66 | 32 | . | 98 | 1 | 13 | 5 | 18 | 117 |
| 1914-15 | 107 | 27 | . | 134 | 1 | 19 | 12 | 31 | 166 |
| 1915-16 | 116 | 40 | . | 156 | 1 | 16 | 17 | 33 | 190 |
| 1916-17 | 133 | 50 | 1 | 184 | 9 | 22 | 17 | 39 | 232 |

* College graduates taking partial work.

† Not holding college degrees.

DISTRIBUTION BY COLLEGES, 1916-17

| | | | |
|----------------------------------|---|----------------------------|----|
| Acadia University..... | 1 | Clark College..... | 1 |
| Amherst College..... | 3 | Colby College..... | 2 |
| Arkansas College..... | 2 | Colgate University..... | 1 |
| Bates College..... | 1 | Cornell University..... | 3 |
| Beloit College..... | 1 | Dartmouth College..... | 3 |
| Boston College..... | 4 | DePauw University..... | 1 |
| Boston University..... | 3 | Fordham University..... | 1 |
| Bowdoin College..... | 3 | Georgetown University..... | 1 |
| Brown University..... | 2 | Grinnell College..... | 2 |
| Carleton College..... | 1 | Hamilton College..... | 2 |
| Carnegie Institute of Technology | 1 | Hamline College..... | 1 |
| Carthage College..... | 1 | Harvard University..... | 57 |
| Case School of Applied Science.. | 1 | Holy Cross College..... | 4 |
| Catholic University, Washington, | | Iowa State University..... | 1 |
| D. C. | 1 | Kansas State College..... | 1 |

| | | | |
|---|----|--|-----|
| Keiogijiku University..... | 1 | University of Alabama..... | 1 |
| Lawrence College..... | 1 | University of California..... | 3 |
| Lebanon Valley College..... | 2 | University of Chicago..... | 1 |
| Leland Stanford Jr. University .. | 5 | University of Colorado..... | 1 |
| Massachusetts Agricultural Col- lege..... | 1 | University of Illinois..... | 1 |
| Massachusetts Institute of Tech- nology..... | 1 | University of Indiana..... | 1 |
| Miami University..... | 2 | University of Kansas..... | 1 |
| Mississippi Agricultural and Me- chanical College..... | 1 | University of Maine..... | 2 |
| Newton Theological Institute... | 1 | University of Michigan..... | 2 |
| New York University..... | 1 | University of Oregon..... | 3 |
| Northwestern University..... | 2 | University of Pennsylvania..... | 4 |
| Oberlin College..... | 2 | University of Texas..... | 3 |
| Occidental College..... | 1 | University of Utah..... | 2 |
| Ohio State University..... | 3 | University of West Virginia.... | 1 |
| Ohio Wesleyan University..... | 3 | University of Wisconsin..... | 5 |
| Olivet College..... | 1 | Utah Agricultural College..... | 1 |
| Otterbein University..... | 1 | Wabash College..... | 3 |
| Park College..... | 1 | Washburn College..... | 2 |
| Pennsylvania State College..... | 2 | Washington and Jefferson College | 2 |
| Pomona College..... | 4 | Wesleyan University, Conn. ... | 2 |
| Princeton University..... | 10 | West Virginia Wesleyan College. | 1 |
| Purdue University..... | 2 | Williams College..... | 3 |
| Ripon College..... | 1 | Wofford College..... | 1 |
| St. John's University, China.... | 2 | Worcester Polytechnic Institute. | 3 |
| St. John's University, Ohio..... | 1 | Yale University..... | 3 |
| St. Lawrence University..... | 1 | | |
| Syracuse University..... | 2 | Total..... | 223 |
| Tokyo University..... | 2 | Total number College Grad- uates..... | 213 |
| Trinity College..... | 2 | Total number of Colleges rep- resented..... | 84 |
| United States Naval Academy.. | 6 | Counted more than once..... | 8 |

DISTRIBUTION BY COLLEGES, 1908-17

| 1908-09 | 1909-10 | 1910-11 | 1911-12 | 1912-13 | 1913-14 | 1914-15 | 1915-16 | 1916-17 |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 14 | 19 | 22 | 24 | 42 | 47 | 64 | 71 | 84 |

DISTRIBUTION BY STATES, 1916-17

STATES:

| | |
|------------------|----|
| Alabama..... | 1 |
| Arkansas..... | 2 |
| California..... | 11 |
| Colorado..... | 1 |
| Connecticut..... | 3 |
| Florida..... | 1 |
| Illinois..... | 6 |
| Indiana..... | 8 |
| Iowa..... | 4 |

STATES:

| | |
|---------------------|----|
| Kansas..... | 4 |
| Louisiana..... | 1 |
| Maine..... | 6 |
| Massachusetts..... | 68 |
| Michigan..... | 4 |
| Minnesota..... | 3 |
| Missouri..... | 3 |
| Nebraska..... | 1 |
| North Carolina..... | 2 |

STATES:

| | |
|---------------------|----|
| New Hampshire..... | 3 |
| New Jersey..... | 3 |
| New York..... | 15 |
| Ohio..... | 17 |
| Oklahoma..... | 1 |
| Oregon..... | 4 |
| Pennsylvania..... | 12 |
| Rhode Island..... | 3 |
| South Carolina..... | 1 |
| Tennessee..... | 1 |
| Texas..... | 3 |

STATES:

| | |
|--------------------------|---|
| Utah..... | 5 |
| Vermont..... | 3 |
| Washington..... | 2 |
| West Virginia..... | 2 |
| Wisconsin..... | 8 |
| Territory of Hawaii..... | 2 |

FOREIGN COUNTRIES:

| | |
|-------------|---|
| China..... | 7 |
| Japan..... | 4 |
| Canada..... | 2 |

DISTRIBUTION BY STATES, 1908-17

| | 1908-09 | 1909-10 | 1910-11 | 1911-12 | 1912-13 | 1913-14 | 1914-15 | 1915-16 | 1916-17 |
|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| States..... | 12 | 16 | 20 | 20 | 26 | 28 | 35 | 34 | 35 |
| Foreign Countries | 2 | 5 | 2 | 4 | 4 | 2 | 4 | 3 | 3 |

The degree of Master in Business Administration was conferred in June, 1917, upon fifty men, whose names are given below, with the subjects of their graduation theses:—

Clement Taggart Bates, A.B. 1916.

"The Establishment of a Mail Order Business and the Preparation of Lists for that Purpose by the Harvard Coöperative Society."

Florian John Bird, A.B. 1915.

"The Problem of Securing Commercial Work in Poster Lithography."

George Hubert Bonsall, Jr., A.B. (*Princeton Univ.*) 1915.

"Index Numbers for Stock Prices, 1906-1916."

Lewis Vincell Boyle, Jr., A.B. (*Leland Stanford Jr. Univ.*) 1909, A.M. (*ibid.*) 1910.

"Accounting by Operating Divisions on the New York, New Haven and Hartford Railroad."

William Clark Brown, Jr., A.B. (*Arkansas Coll.*) 1915.

"The English Investment Trust Companies and the Possibility of Establishing Similar Companies in the United States."

Starr Lewis Bruce, A.B. (*Leland Stanford Jr. Univ.*) 1915.

"Sales Department Reports for an Oil Company."

Norman Lee Burton, A.B. (*Williams Coll.*) 1911.

"A Market Analysis for Cotton Piece Goods in Cuba, Porto Rico, Hawaii and the Philippines, for a Textile Commission House."

Jay Beidler Camp, A.B. 1915.

"A Summary of Seventy-two Opinions on a Boston Department Store obtained by Personal Interviews with Charge Customers living in Cambridge."

Frank Everett Chaffee, A.B. (*Leland Stanford Jr. Univ.*) 1915.

"A System of Statistical Reports for the Chief Executive of a Company operating a Chain of Grocery Stores."

Norman Balch Clark, A.B. 1916.

"Methods of Material and Labor Cost Distribution in the Office of the Inspector of Grounds and Buildings of Harvard University."

Gilman Kimball Crockett, S.B. (*Pennsylvania State Coll.*) 1915.

"Establishing Order Points and Buying Specifications for a Wood-working Shop."

Otto Rockefeller Folsom-Jones, A.B. (*Bowdoin Coll.*) 1915.

"An Auditing and Accounting System for the Commission on University Extension Courses."

Henry Eli Friedman, A.B. 1916.

"Accounting for a Retail Jewelry Store making Collateral Loans."

Thornton Greeley, A.B. 1913.

"Large Stock Issues featuring Recent Railroad Reorganizations and Recommendations for facilitating Future Issues."

James Arthur Green, A.B. (*Acadia Univ.*) 1915.

"A Plan for securing Sales Force at Peak Seasons in a Boston Department Store."

Earle Sylvanus Habberstad, A.B. (*Beloit Coll.*) 1915.

"The Commercial Paper Policy of a Bank in Southern Minnesota."

William Finn Hallstead, 2d, A.B. (*Princeton Univ.*) 1915.

"A Comparison of the Old and New Basis of Railway Mail Pay on the Boston and Maine Railroad."

George Laban Harding, A.B. (*Indiana Univ.*) 1915.

"An Investigation of the City of Detroit as a Possible Location for a Professional Typographer."

James Francis Horan, A.B. (*Catholic Univ. of America*) 1913.

"A Constructive Criticism of the Accounting Methods of the Town of Hingham."

Harrison Val Hoyt, S.B. (*Purdue Univ.*) 1913.

"An Analysis of the Cost of Coal."

Philip Ludwell Jackson, LITT.B. (*Princeton Univ.*) 1915.

"A Coöperative Service Bureau for Advertisers to be installed by a Newspaper in a City of Three Hundred Thousand Population."

Hugh John Jamieson, A.B. (*Univ. of Wisconsin*) 1915.

"Bank Advertising."

Gilbert DeLafayette Jay, Jr., A.B. (*Wabash Coll.*) 1915.

"Farm Mortgages in Alberta."

Alden Vinal Keene, A.B. 1916.

"The West Boston Gas Properties: can they be made to pay?"

Paak Tong Lau, S.B. (*Univ. of Pennsylvania*) 1915.

"A Study of the System of Purchase and Stores Records of a New England Cotton Mill."

John William Lerew, A.B. (*Lebanon Valley Coll.*) 1915.

"A Taylor System Tool Room for a Specific Valve Company."

Charles Hochzeit Levine, S.B. (*Carnegie Institute of Technology*) 1915.

"Devising a Production System and getting Results under it into the Books of Account, with Reference to a Specific Boiler Works."

Irving Boin Lincoln, S.B. (*Mass. Agricultural Coll.*) 1915.

"A Plan of Organisation and a Year's Program of Work for a Manufacturers' Assembly in the Cambridge Board of Trade."

Adolph Maurice Loveman, A.B. (*Yale Univ.*) 1915.

"A Study of the Marketing Problems of a Tennessee Firm manufacturing Hard Wood Lumber to determine the Extent to which its Products should be Advertised."

George Arthur McWilliams, A.B. (*Bowdoin Coll.*) 1915.

"Purchase Records for a Wholesale Lumber Dealer in Greater Boston."

Howard Parsons Marshall, A.B. (*Univ. of Wisconsin*) 1915.

"A Standard Stores System for Shoe Factories."

Dudley Holbrook Mills, A.B. (*Princeton Univ.*) 1915.

"The Development of the Bank Acceptance in the United States."

Charles Hiram Moore, A.B. 1913.

"A System of Material Records for the Inspector of Grounds and Buildings of Harvard University."

Arthur Guy Neff, A.B. (*Oberlin Coll.*) 1914.

"An Analysis of Fifteen Representative American Railroad Stocks with a Forecast of their Probable Position on the Stock Market in the Near Future."

James George Osmond, S.B. (*Utah Agricultural Coll.*) 1912.

"A Study of the Profitableness of the Taylor Stores System applied to a Small Laundry Machinery Factory."

Archie Goodrich Postlethwait, A.B. (*Pomona Coll.*) 1915.

"Process Cost Accounts for the Soap Department of a Specific Company."

Willard Samuel Putnam, A.B. 1916.

"The Marketing of Securities through Commercial Banks."

Frank Albert Redmond, A.B. (*Washburn Coll.*) 1912, LL.B. (*ibid.*) 1915.

"The 'Shreveport Case' and Control over Interstate Rates by the Interstate Commerce Commission."

Alden Reed, S.B. (*Worcester Polytechnic Institute*) 1915.

"The Comparison of the Labor Percentage Plan of Burden Distribution with that of the Machine Hour Plan."

William Brown Ricketts, A.B. (*Washington and Jefferson Coll.*) 1914.

"A Policy Problem relating to the Branch Stock Rooms of a New England Manufacturing Company."

Ernest Charles Roth, A.B. (*Univ. of Michigan*) 1915.

"The Depreciation of Automatic Screw Machines."

Edward Coghlin Rundell, A.B. (*St. John's Univ., O.*) 1914.

"The Advertising by a Boston Bond House of Industrial and Public Service Securities as Investments."

Homer Aaron Sargent, A.B. 1915.

"A Method of Determining Product Costs in a Bakery."

E. Herbert Spoor, A.B. (*Pomona Coll.*) 1915.

"Farmers' Cooperative Plan for the Direct Marketing of Eggs to the Consumer in Boston and Vicinity."

Richard Wetmore Story, A.B. 1915.

"A System of Central Control for a Specific Lithograph Manufacturing Company."

John Swan, A.B. 1912.

"Ship-Chandlery, with Particular Reference to a Certain Business and Suggestions as to its Reorganization."

James Blaydes Viosca, A.B. (*Arkansas Coll.*) 1915.

"The Field of Usefulness of Trade Acceptances."

Paul Dyess Weathers, A.B. (*Amherst Coll.*) 1915.

"The Advisability of Attaching Sinking Funds to Railroad Bonds."

Gordon Carlisle Welshons, A.B. (*Carleton Coll.*) 1915.

"Statistical Records for the Manager of a String of Retail Lumber Yards."

Albert Robinson Willard, S.B. (*Colby Coll.*) 1915.

"An Accounting Problem at a Specific Belting Company."

The following men in the above list secured the degree of Master in Business Administration "with distinction" :—

Starr Lewis Bruce

Richard Wetmore Story

The two prizes of one hundred dollars and fifty dollars, offered annually by Mr. George Oliver May of New York for the two best graduation theses, were awarded as follows: first prize of one hundred dollars to Mr. William Brown Ricketts, and second prize of fifty dollars to Mr. John William Lerew.

During the year 1916-17, grants to students from the Business School Loan Fund were made to the amount of six hundred and seventy-five dollars (\$675). Repayments to the amount of six hundred and seventy-four dollars and sixty-six cents (\$674.66) and gifts amounting to one hundred and twenty-five dollars (\$125) were received. At the opening of the fiscal year 1917-18, there was a balance on hand of one thousand six hundred and fifty-four dollars and forty cents (\$1,654.40).

The Business School Faculty numbered five new members in 1916-17: Mr. W. H. Blood, Jr., of Stone and Webster, Boston, appointed Lecturer on Public Utilities, to take the courses formerly under the direction of Mr. Eliot Mears; Mr. H. C. McCarty, formerly connected with the Federal Trade Commission, appointed Lecturer on Marketing, to take the third section of the large first-year class in this subject and a new course in Water Transportation; Mr. James Willing, formerly in joint charge with Professor Cole of advanced Industrial Accounting, appointed Lecturer on Accounting, to take full charge of this course; Dr. Julius Klein,

Instructor in Latin-American History and Economics, who gave in the Business School a half-course in Latin-American Trade Problems formerly given by Dr. Martin; and Mr. H. H. Farquhar, formerly Assistant in Factory Management, appointed Instructor in that subject, to give under Naval Constructor Coburn the first-year course in Factory Management and that in the Taylor System of Management. Two new assistants were appointed: Mr. H. B. Gill, in Marketing, to take charge of instruction in English in place of Mr. F. W. C. Hersey who was unable to continue this work in the Business School, and Mr. D. L. Stevens, in Public Utilities Operation and Business Policy.

The course in Social Factors in Business Enterprise was combined with that in Business Policy, formerly given by Dr. Martin, and was given by the Dean of the School, assisted by Faculty members and outside lecturers. The new course in Water Transportation was successfully given during the second half-year. The courses left without instructors by the resignations of Dr. Martin and Mr. Mears were taken care of in the manner indicated above. It was found necessary to bracket the courses in European Trade and Financial Management of Public Utility Corporations.

At the request of the Council of National Defense, the Business School established in June two special war courses, in Military Stores Keeping and Cost Inspection for War Contracts, which were given during the six-week period, June 18th to July 28th, 1917. Men especially qualified by training and experience were admitted to these courses.

The Military Stores Keeping course gave instruction in lay-out and construction of storage plants, purchasing, receiving, inspection, storing, indexing and shipping of goods, with emphasis on transportation of all kinds, out-of-door storage and related current problems. Lectures were given by executives from neighboring cities, supplemented by practical field work at government and private plants. Twenty-two men finished this course, all but four of whom have now been assigned duty under the Ordnance Department at Government Arsenals. This course was under the immediate supervision of Mr. H. H. Farquhar of our Faculty.

The course in Cost Inspection for War Contracts was given with the generous coöperation of the Certified Public Accountants of Massachusetts who supplied as instructors several well qualified men. Thirty-five civilians and thirty-five men detailed from the Pay Corps of the United States Navy took this six weeks of intensive training which was under the direction of Dr. J. S. Davis of

the Faculty of Harvard University. The thirty-five civilians have been placed under Civil Service. Certain of these men have been unable to fulfil the Civil Service requirements because they are under twenty-three years of age; others, however, are now engaged in accounting work for the Government.

From June 4th to 23d, inclusive, the Graduate School of Business Administration offered men in active training in the Harvard Reserve Officers' Training Corps intensive work in handling government supplies. Some fifty men were enrolled in this course, detailed for instruction from the Reserve Officers' Training Corps. The work was intended for prospective officers of the line who will serve with troops. Three members of the Business School Faculty coöperated in the instruction: Professors Cole, Cunningham, and Cherington. The divisions of training covered roughly: Accounting and Finance; Transportation; and Supply Service proper. This instruction will serve in good stead those men who went from the Harvard Reserve Officers' Training Corps to Government camps in preparation for future commissions.

After the completion of this Supply Course Professor Cole, who was commissioned as Captain in the Quartermaster Officers' Reserve Corps and detailed for service at the University, prepared at the request of the Quartermaster Department an outline of a course of instruction for Supply Officers which will be used at the Quartermaster School conducted this winter at Jacksonville, Florida.

In accordance with the practice of preceding reports, I am glad to acknowledge the coöperation in our instruction during the past year of the following outside lecturers:—

MARKETING

C. C. Parlin of Philadelphia: "The Marketing of Automobiles."

FACTORY MANAGEMENT

L. P. Alford of New York: "Scientific Management and the Machine Tool Industry."

J. B. Andrews of New York: "Labor Legislation."

Charles Day of Philadelphia: "Plant Lay-out and Construction."

H. S. Dennison of Framingham: "An Experiment in Industrial Partnership."

H. L. Gantt of New York: "Compensation and Training of Labor."

C. B. Going of New York: "Organization and Management" (two lectures).

H. K. Hathaway of Philadelphia: "Scientific Management in Machine Shops."

Gifford LeClear of Boston: "Power and Power Plants" (two lectures).

Everett Morss of Boston: "The Handling of Labor."

W. E. C. Nazro of Plymouth: "Welfare Work."

J. F. Tobin of Boston: "Labor Unions and Factory Management."

R. A. Wentworth of Lowell: "Standardization of Equipment."

FACTORY MANAGEMENT (ADVANCED) AND TAYLOR SYSTEM OF MANAGEMENT

H. L. Gantt of New York: "Lessons in Scheduling."

C. W. Mixter of New Haven: "A Necessary Modification of the Task and Bonus."

S. E. Thompson of Boston: "Time Study" (two lectures).

R. B. Wolf of Sault Ste. Marie, Canada: "Personality in Industry."

BUSINESS POLICY

R. B. Carter of Cambridge: "A Problem of Organization" (two lectures).

Howard Coonley of Boston: "A Problem of Organization" (two lectures).

W. H. Cottingham of Cleveland: "A Managerial Problem in the Manufacture and Sale of Paint" (two lectures).

H. S. Dennison of Boston: "A Managerial Problem in Labor" (three lectures).

P. E. Fitzpatrick of Boston: "A Managerial Problem in the Wholesaling of Dry Goods" (three lectures).

G. L. Graham of Boston: "A Problem in Transportation."

W. H. Ingersoll of New York: "A Problem in Marketing."

C. H. Jones of Boston: "Fixing the Price of Shoes under Conditions of Rising Cost of Leather" (three lectures).

Professor A. M. Kales of Cambridge: "The Movement toward Concentration in Business" (three lectures).

H. P. Kendall of Norwood: "A Problem of Finance" (two lectures).

J. S. Lawrence of Boston: "A Managerial Problem in the Selling of Textiles" (three lectures).

H. W. Mason of Boston: "A Managerial Problem in Paper Production" (three lectures).

P. J. Reilley of Framingham: "A Problem in Employment" (three lectures).

W. F. Severn of Bridgeport, Conn.: "A Managerial Problem in the Wholesaling of Lumber" (three lectures).

W. L. Shaw of Boston: "A Problem in 'Efficiency'" (three lectures).

J. R. Simpson of Boston: "A Managerial Problem in Department Store Retailing" (three lectures).

T. W. Slocum of New York: "A Managerial Problem in the Marketing of Textiles" (two lectures).

H. C. Smith of New York: "A Problem in Financing a Textile Factory."

P. L. Spalding of Boston: "A Problem of Organization in the Telephone Business."

Henry Sterling of Boston: "Labor Legislation" (two lectures).

BANKING (FIRST-YEAR)

H. C. Smith of New York: "Credit Analysis."

RAILROAD ACCOUNTING AND STATISTICS

H. F. Bidwell of Boston: "Organization of a Freight Claim Department."

C. J. Ferguson of Boston: "Freight House Operation in Boston" (open also to classes in Railroad Operation and Analysis of Railroad Problems).

F. A. Hortter of Boston: "Car Accounting."

W. S. Trowbridge of Boston: "The General Books of a Railroad Company."

J. F. Turner of Boston: "Freight Revenue Accounting."

RAILROAD TRAFFIC AND RATE-MAKING

- G. T. Atkins, Jr., of Shreveport, La.: "The Shreveport Case."
 G. H. Eaton of Boston: "The New England Rate Structure."
 G. L. Graham of Boston: "The Work of the Industrial Traffic Manager" (two lectures).
 W. T. Lamoure of Boston: "Traffic Department Organization and Office Methods"; "The Local Freight Agent and his Relations with the Public"; "Solicitation of Traffic" (three lectures).
 D. T. Lawrence of New York: "Principles of Freight Classification"; "Interpretation of Tariffs" (two lectures).
 W. P. Libby of Plymouth: "The Handling of Classification Problems."

FIRE INSURANCE ENGINEERING

- E. A. Barrier of Boston: "Chemical Hazards of Manufacture."
 F. E. Cabot of Boston: "Fire-Proof Construction" (two lectures).
 W. W. Crosby of Boston: "Building Construction in General" (two lectures).
 H. A. Fiske of Boston: "Importance of Knowledge of Fire Insurance Engineering to the Successful Insurance Broker."
 M. F. Jones of Boston: "Fire Hazards"; "Manufacturing and Chemical Hazards" (two lectures).
 J. W. Lord of Boston: "Plan Drafting and Notation" (two lectures).
 C. W. Mowry of Boston: "Automatic Sprinkler Systems" (three lectures).
 Isaac Osgood of Boston: "High Service Water Systems."
 T. E. Sears of Boston: "Public Fire Protection" (two lectures); "Inside Protection."
 Ralph Sweetland of Boston: "Electrical Hazards" (two lectures); "Automatic Fire Alarm Systems."
 F. H. Wentworth of Boston: "National Fire Protection Associations" (two lectures).

In connection with this course the hearty coöperation of the Underwriters' Bureau of New England, the Boston Board of Fire Underwriters, and the Associated Factory Mutual Insurance Companies is greatly appreciated by the School.

PRINTING

- H. L. Baker of New York: "Printing Presses."
 A. E. Barter of Norwood, Mass.: "Book Binding."
 W. J. Berwick of Norwood, Mass.: "Special Printing Machinery."
 L. P. Cudworth of Boston: "Newspaper Publishing."
 A. W. Elson of Boston: "Reproducing Processes"; "Photo-engraving" (three lectures).
 A. W. Finlay of Boston: "The Organization of a Printing Plant."
 F. T. Hull of Cambridge: "Comparison of Costs of Machine Composition."
 Professor Grinnell Jones: "The Physical Qualities of Paper."
 J. H. McFarland of Philadelphia: "The Management of a Printing Plant."
 E. E. Nelson of Boston: "Estimating" (two lectures).
 J. C. Oswald of New York: "Offset Printing."

- Professor Arthur Pope: "The Theory and Harmony of Color" (three lectures).
 Charles Schweinler of New York: "Periodical Printing."
 W. A. Spurrier of Boston: "Press Make-ready."
 D. B. Uptake of Boston: "Laying out Work"; "The Selection of Type" (two lectures).

PRINTING (ADVANCED)

- W. A. Dwiggins of Boston: "Problems in Imitative Design"; "Modern Book Design"; "Designing Commercial Work" (eighteen lectures).
 E. E. Nelson of Boston: "Practical Problems in Estimating."
 Professor Arthur Pope: "The Theory of Design."

PUBLIC UTILITIES OPERATION

- E. W. Bemis of Chicago: "Valuations from the Public Standpoint."
 H. G. Bradlee of Boston: "Centralized Management of Public Utilities."
 Francis Brown of Newburyport, Mass.: "Purchasing and Conducting Store-room."
 M. C. Brush of Boston: "Labor Problems."
 E. W. Burdett of Boston: "Public Service Regulation as the Company sees it."
 G. E. Clafin of New York: "Holding Companies."
 Professor H. E. Clifford: "Technical Expressions having to do with the Economical Operation of Public Utility Companies."
 D. M. DeBard of Brockton: "New Business Getting."
 W. A. Durgin of Chicago: "Better Lighting."
 L. L. Elden of Boston: "Continuous Service and what it entails."
 W. W. Freeman of Cincinnati: "Relations with the Public."
 Professor C. E. Fuller: "Description of a Water Supply Company's Plant" (two lectures).
 L. D. Gibbs of Boston: "Advertising."
 J. F. Gilchrist of Chicago: "Centralization of Power Supply."
 Walter Goodenough of Boston: "The Lay-out of an Electric Light Plant" (two lectures).
 W. H. Hodge of Chicago: "The Customer as a Financial Partner in a Public Utility."
 J. A. Hunnewell of Lowell: "The Ornamental Street Lighting System at Lowell."
 C. W. Hunter of Boston: "The Manufacture of Gas" (two lectures).
 E. E. Lincoln of Cambridge: "Municipal Ownership of Public Utilities."
 J. B. McCall of Philadelphia: "An Independently operated Company."
 L. R. Nash of Boston: "The Making of Rates"; "The Jitney Problem" (two lectures).
 J. E. Oldham of Boston: "Public Utilities Securities as Investments."
 F. B. H. Paine of New York: "Valuations from the Company's Standpoint."
 Russell Robb of Boston: "Organization, Authority and Responsibility of the Officers and the Employees in a Public Utility Company."
 H. T. Sands of Boston: "What it means to connect up a New Customer."
 A. R. Weed of Boston: "Public Service Regulation."
 N. T. Wilcox of Keokuk, Iowa: "Analysis of Rates for Power Customers."

During the year 1916-17 the National Association of Employing Printers continued its coöperation with the School, sending to printers and others interested throughout the country a circular regarding instruction in printing in the Harvard Business School which resulted in something over two hundred inquiries about our courses in this subject. Doubtless because of the war but few of these prospective students actually registered.

There have been added during the past year the following firms which are available for the inspection of our students:—

American Sugar Refining Company, South Boston.
 Beacon Engraving Company, Boston.
 Blake and Knowles Steam Pump Works, East Cambridge.
 Buff and Buff, Jamaica Plain.
 Charles Burtman, Boston.
 Harry Butter and Company, Dorchester.
 Samuel Cabot, Boston.
 Consolidated Rendering Company, Boston.
 Crane and Company, Dalton.
 F. H. Dow and Company, Boston.
 J. A. Dunn Company, Gardner.
 Eaton, Crane and Pike, Pittsfield.
 Fitchburg Yarn Company, Fitchburg.
 Thomas W. Gardiner and Sons, Lynn.
 James J. Grover's Sons, Lynn.
 C. F. Hathaway and Sons, Cambridge.
 Hub Wire Cloth and Wire Work Company, Boston.
 Hutchings Organ Company, Waltham.
 Iver Johnson's Arms and Cycle Works, Fitchburg.
 Kaplan Charak Company, Cambridge.
 Locomobile Company of America, Bridgeport, Conn.
 P. Martino and Company, Boston.
 New England Oil Paint and Varnish, Everett.
 Norton Company, Worcester.
 Richardson Manufacturing Company, Worcester.
 F. H. Roberts Company, Boston.
 W. F. Schrafft Sons Corporation, Boston.
 Scripps-Booth Motor Car Company, Boston.
 Star Refining Company, South Boston.
 A. T. Stearns Lumber Company, Neponset.
 Stetson Shoe Company, South Weymouth.
 United Drug Company, Roxbury.
 University Paper Box Company, Cambridge.
 White Pine Box Company, Somerville.
 Wright Wire Company, Worcester.
 E. T. Wright and Company, Rockland.

The kind coöperation of these firms and others mentioned in my earlier reports affords our students, in Factory Management courses especially, valuable, practical laboratory instruction.

Prior to July, 1916, the Bureau of Business Research had confined its work to a study of the retail shoe trade. At this date a study of the wholesale shoe trade was commenced and in November, 1916, a study of the wholesale grocery trade. In each investigation the Bureau has followed the same plan. Four uniform accounting systems have been published, which are being more and more widely adopted in the businesses for which they have been prepared. Upon these accounting systems as bases the Bureau collects figures on operating expenses. Up to March, 1917, confidential information had been received from over one thousand shoe retailers, from over one thousand one hundred retail grocery stores, from over one hundred and fifty wholesale grocers, and from a smaller number of shoe wholesalers. In its bulletins, the Bureau has published, in addition to the accounting systems, summaries of operating expenses in the retail shoe business and in the retail grocery business, and also a standard stock-keeping system for retail shoe stores. In May and June, 1917, new editions of the retail accounting systems were published to meet the increasing demands for these bulletins from members of the trades. In July a bulletin on operating costs in the wholesale grocery business was also published.

In the spring of 1917 the Harvard Business School Association, composed of Business School Alumni, circularized all former students and graduates to learn those available for war service and in what capacity they might serve. A satisfactory return was secured from which recommendations for government work have been made.

In May, 1917, large numbers of Business School students left to enter military service: twenty-two going into the Navy, twenty-six into the Army, thirty to Government camps, a number to the Harvard Reserve Officers' Training Corps, and many others to government and civil positions caused by the war. Early examinations were given the first of May to permit early departure of students when this was necessary.

The following business men addressed the Business School Club during 1916-17: —

David Beecroft, Managing Editor, *The Automobile*, New York.

J. Randolph Coolidge, of Boston.

Howard Coonley, President, Walworth Manufacturing Company, South Boston.

W. H. Cottingham, President, Sherwin-Williams Company, Cleveland.

H. R. Guild, President, Counsel for Massachusetts Civil Service Association, Boston.

H. O. Hereford, of firm of G. Strauss and Company, Kobe, Japan.

E. F. Lange, Student Interpreter, American Embassy, Constantinople, Turkey, and Acting Editor, *Levant Trade Review*.

W. B. Medicott, Harvard Business School Faculty.

Professor L. F. Schaub, Harvard Business School Faculty.

J. R. Simpson, Vice President, William Filene's Sons Company, Boston.

H. S. Thompson, of firm of White, Weld and Company, Boston.

In November a special lecture was given by Thomas H. Mawson, Esq., of London, England. Mr. Mawson's visit to the University was under the auspices of the Architectural School and Business School. His lecture was on the city of Athens, with emphasis on city planning.

In April Captain W. S. Bowen, U. S. A., detailed to Harvard University in connection with the Reserve Officers' Training Corps, gave a special lecture to Business School men on "The Work of the Army Supply Officer in the Field."

EDWIN F. GAY, *Dean*.

THE SCHOOL OF ARCHITECTURE

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR,—I have the honor to submit a report on the School of Architecture for the academic year 1916–17.

The registration was as follows:—

| | |
|-------------------------|----|
| Regular students..... | 24 |
| Special students..... | 16 |
| Travelling fellow | 1 |

This shows a loss of three regular students and a gain of five special students as compared with the year 1915–16.

Beside the graduate students thirty different undergraduates took those of our courses which are open to them, with a total registration of fifty-seven.

The regular students were graduates of the following colleges and technical schools:—

| | | | |
|------------------------|----|-------------------------------|---|
| Amherst College..... | 1 | Illinois, University of..... | 2 |
| Cornell College..... | 1 | Miami University..... | 1 |
| Dartmouth College..... | 2 | Minnesota, University of..... | 2 |
| Harvard College..... | 14 | Monmouth College..... | 1 |

The enrolment of students in the several courses was as follows:—

| | | | |
|-------------------------------|----|-------------------------------|----|
| Arch. 1a. Undergraduates..... | 14 | Arch. 4b. Graduates..... | 16 |
| Graduates..... | 12 | Arch. 4c. "..... | 8 |
| Arch. 1b. Undergraduates..... | 8 | Arch. 5a. Undergraduates..... | 2 |
| Graduates..... | 10 | Graduates..... | 17 |
| Arch. 1c. Undergraduates..... | 9 | Arch. 5b. Undergraduates..... | 1 |
| Graduates..... | 10 | Graduates..... | 10 |
| Arch. 2b. Undergraduates..... | 5 | Arch. 5c. "..... | 7 |
| Graduates..... | 1 | Arch. 5d. "..... | 2 |
| Arch. 2c. Undergraduates..... | 3 | Arch. 6a. "..... | 15 |
| Graduates..... | 4 | Arch. 6b. "..... | 5 |
| Arch. 3a. Undergraduates..... | 5 | Arch. 6c. "..... | 5 |
| Graduates..... | 6 | Arch. 8 "..... | 14 |
| Arch. 3b. "..... | 8 | Arch. 9 "..... | 5 |
| Arch. 3c. "..... | 11 | Arch. 10a. "..... | 8 |
| Arch. 3d. "..... | 11 | Arch. 10b. "..... | 8 |
| Arch. 4a. Undergraduates..... | 4 | Arch. 20a. "..... | 4 |
| Graduates..... | 9 | | |

The enrolment of students in the Summer School courses in architectural design was as follows:—

| | |
|-----------------------|---|
| Regular students..... | 2 |
| Special students..... | 3 |

The degree of Master in Architecture was granted in February, 1917, to

HOWARD HOLMES BARTON, A.B. 1911.

MILLARD BURR GULICK, A.B. 1913.

PHILETUS CLARKE KNOWLTON, Jr., S.B. in Arch. (*Univ. of Illinois*) 1914.

And in June, 1917, to

EUGENE DODD, A.B. 1914.

GEORGE BARR KAYSER, A.B. 1914.

JACOB JOSEPHUS LIEBENBERG, S.B. in Arch. (*Univ. of Minnesota*) 1916.

The following fellowships and prizes were awarded:—

The Julia Amory Appleton Fellowship to Philetus Clarke Knowlton, Jr., S.B. in Arch. (*Univ. of Illinois*) 1914, M.Arch. (*Harvard*) 1917.

The medal of the American Institute of Architects to Eugene Dodd, A.B. 1914, M.Arch. 1917.

The silver-gilt medal of the Société des Architectes Diplômés par le Gouvernement Français to Jacob Josephus Liebenberg, S.B. in Arch. (*Univ. of Minnesota*) 1916, M.Arch. (*Harvard*) 1917.

The prize of the Boston Society of Architects for regular students to Carl Peter Teigen, A.B. (*Univ. of Minnesota*) 1915.

The prize of the Boston Society of Architects for special students to Duncan McLachlan, Jr.

The scholarships for special students (won by a competition in design) to

DUNCAN McLACHLAN, Jr.

CARL WILLIAM LARSON.

FREDERICK JOSEPH KUCHLER.

The latter resigning, his scholarship was awarded to his alternate, Travis Gower Walsh.

There were no changes in the teaching staff from the previous year.

The approximate number of additions to the library during the year were as follows:—

| | |
|--|-------|
| Books, bound periodicals, and bound pamphlets..... | 70 |
| Photographs..... | 6,370 |
| Lantern slides..... | 1,740 |

Included in these additions is the valuable collection of photographs, lantern slides, and manuscripts purchased from Francis Bond, the great English authority on Gothic architecture.

Joint problems in design between our School, the Department of Architecture at the Massachusetts Institute of Technology, and the Boston Architectural Club have continued through the year, and have stimulated the interest of the students by comparison with work of the students of the other schools. The problems are judged by a common jury of representatives from the three staffs and the discussions at the judgments have been of great value to the instructors themselves.

Professors of architecture can report few papers read, researches conducted, or books written. Our own have done their share of professional committee work and public service in matters of education, housing, and building laws, but these matters are not of academic interest.

During the school year about one-third of our students left for training courses, ambulance service, and professional work in connection with army and navy cantonments, hospitals, and other construction needed by the Government.

Professor H. Langford Warren, Chairman of the Council of the School of Architecture and Dean of the Faculty of Architecture, died June 27, 1917, in the sixty-first year of his age. In 1893 he started the courses in architectural history which later developed into the Architectural Department of the Lawrence Scientific School, and, still later, into the School of Architecture. Through the struggle of this development his vision of the larger aspects of architectural education and his patience and devotion in developing the instruction were invaluable to the School. He upheld his high personal, professional, and educational ideals without compromise. His broad scholarly knowledge and sensitive appreciation of all the related arts made his courses in the history of architecture a liberal education in themselves and added greatly to the reputation of the School.

CHARLES W. KILLAM,
Chairman of the Faculty of Architecture.

THE SCHOOL OF LANDSCAPE ARCHITECTURE

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — As Chairman of the School of Landscape Architecture I have the honor to submit the following report for the academic year 1916–17.

The total of registrations in the School during the year was twenty-four, besides two travelling fellows, or a membership of twenty-six; including twenty-three regular students, candidates for our professional degree, and one special student, — an increase from the previous year by six regular students and one travelling fellow and a decrease by one special student, or a total net increase from twenty to twenty-six. These figures differ from those in the University Catalogue for 1916–17 by the addition of three regular students, who entered from Harvard, Purdue, and Oberlin later in the year.

The regular students were graduates of the following colleges and technical schools: —

| | |
|--|----|
| Carthage College | 1 |
| Dartmouth College | 1 |
| Harvard College (<i>as compared with 3 in previous year</i>) | 5 |
| Iowa State College | 1 |
| Massachusetts Agricultural College | 3 |
| Milton College | 1 |
| Oberlin College | 1 |
| Pennsylvania State College (<i>Travelling Fellow</i>) | 1 |
| Pomona College | 1 |
| Princeton University | 1 |
| Purdue University | 2 |
| Tufts College | 1 |
| University of California (<i>Travelling Fellow</i>) | 1 |
| University of Illinois | 1 |
| University of Michigan | 2 |
| University of Wisconsin | 1 |
| Yale University | 1 |
| <hr/> | |
| Total | 25 |

The remarkable extent to which the School draws its students from other widely scattered institutions is indicated by the fact that the twenty-five regular students in the School in the year under review came with degrees from seventeen different institutions, and twenty

out of the twenty-five were from other institutions than Harvard. Ten of these students had taken undergraduate professional courses in Landscape Architecture in the institutions from which they entered.

The enrolments in courses were as follows: —

| | |
|-----------------------------------|----------------------------------|
| Land. Arch. 1. Undergraduates. 44 | Land. Arch. 7. Graduates..... 10 |
| Graduates..... 8 | Land. Arch. 8. " 5 |
| Land. Arch. 2. " 16 | Land. Arch. 9. " 5 |
| Land. Arch. 3. " 6 | Land. Arch. 10. " 15 |
| Land. Arch. 4. " 11 | Land. Arch. 11. " 8 |
| Land. Arch. 5. " 5 | Land. Arch. 20. " 1 |
| Land. Arch. 6. " 8 | |

It will be noted that besides the students regularly registered in the School, there were as usual a considerable number of undergraduates in Harvard College taking Course 1, open to Juniors and Seniors.

As for many years, there were undergraduates in Harvard College looking forward to later entrance into the School, and working in the College under the general advice of the Chairman of the School. This year there were ten such prospective professional students in the College, more than ever before. While the strength and future of the School lie largely in the wide range of colleges and technical schools from which it draws, this increase was particularly welcome, since experience shows that the special preparation possible in Harvard College — particularly in the Fine Arts — for the later work in our professional school is in most important ways both broader and more thorough-going than in most other institutions from which students come to us.

The only change during the year in the personnel of the staff was that in the instructorship in Horticulture, this being the first year without Mr. Watson, who after thirty-nine years of devoted service to the University had resigned in the previous June. His elementary courses were successfully given by Mr. Stephen Francis Hamblin, S.B., appointed Instructor in Horticulture for the year, and his advanced courses by Mr. Pond, reappointed for the year as Instructor in Landscape Architecture. The members of the Council of the School for 1916-17 were as follows: —

JAMES STURGIS PRAY, A.B., Charles Eliot Professor of Landscape Architecture, and Chairman of the Council of the School of Landscape Architecture.

HENRY VINCENT HUBBARD, A.M., S.B., Assistant Professor of Landscape Architecture.

FREDERICK LAW OLNSTED, A.B., Lecturer on Landscape Architecture.

BREMER WHIDDEN POND, S.B., M.L.A., Instructor in Landscape Architecture.

STEPHEN FRANCIS HAMBLIN, S.B., Instructor in Horticulture.

FLETCHER STEELE, A.B., Assistant in Landscape Architecture.

There were no specific changes in requirements either for admission to the School or for graduation, but the actual requirements for the degree were somewhat stiffened.

On the afternoon of November 27, 1916, Thomas H. Mawson, Esq., of London, Special Lecturer on Landscape Design at the University of Liverpool and Official Adviser to the King and Queen of Greece, lectured to the School on "A Village Scheme for Disabled Soldiers," and in the evening, under the joint auspices of the Schools of Landscape Architecture and Business Administration, lectured on "The Replanning and Reconstruction of Athens; An Example of Modern City Planning."

The degree of Master in Landscape Architecture was granted at Commencement to:

ARTHUR HADDEN ALEXANDER, S.B. (*Univ. of Wisconsin*) 1914, of Wellesley, Mass.

RAYMOND WHITE BLANCHARD, A.B. (*Harvard Univ.*) 1915, of Somerville, Mass.

RALPH DALTON CORNELL, A.B. (*Pomona Coll.*) 1914, of Long Beach, Cal.

During the year Mr. Faris Barton Smith (A.B., *DePauw Univ.*, 1908, M.L.A., *Harvard*, 1913), whose term as Sheldon Travelling Fellow in Landscape Architecture had expired on September 1, 1915, but who had been pursuing further in this country the special investigation begun in Europe, presented his thesis entitled "The Garden City Movement in England and in the United States," which now constitutes a most valuable addition to our Library material for research use. Mr. Benjamin Yoe Morrison (S.B., *Univ. of California*, 1913, M.L.A., *Harvard*, 1915), who as Sheldon Travelling Fellow in Landscape Architecture had by special arrangement started in the middle of the previous year for his study in Japan and China, returned in February, bringing with him much material of unique professional interest in this little-known field of oriental landscape architecture. Mr. Raymond Hill Wilcox (S.B., *Pennsylvania State College*, 1912, M.L.A., *Harvard*, 1914), first holder of the newly established Charles Eliot Travelling Fellowship in Landscape Architecture, who under normal conditions would have been spending the year in Europe in professional study, was allowed on account of the war to postpone the use of his fellow-

ship. Mr. Elbert Peets (A.B., *Adelbert College, Western Reserve Univ.*, 1912, M.L.A., *Harvard*, 1915) won the competition in June for the Charles Eliot Travelling Fellowship for 1917-18.

The Annual Trophy Competition in Landscape Design (open to all students in the School taking courses in Landscape Design) was held in December, and was won by Arthur Hadden Alexander, a third-year student.

Among the exhibitions of students' work held during the year, besides those held in the School itself, may be noted the following: in October and November, at St. Louis, Mo., first at the Missouri Botanical Garden, and later at the St. Louis Architectural Club; in November, in Boston as part of a Joint Exhibition of Architecture, Landscape Architecture, and the Allied Arts, under the auspices of the Boston Society of Architects, Boston Society of Landscape Architects, and Boston Architectural Club; two separate exhibitions at Iowa State College, Ames, Ia.; one at the University of Nebraska, at Lincoln, Neb.; and one at the Agricultural and Mechanical College of Texas, at College Station, Texas; and in May, at the New York State College of Forestry, Syracuse University, Syracuse, N. Y.

In our Special Library of Landscape Architecture, our exceptionally efficient Librarian, Miss Theodora Kimball, continued to develop and organize our various collections, and to render them more useful for course study and for research. The chief new additions to our Library collections and facilities were our new collection and index of Plant Portraits, both of which, though destined to grow indefinitely in succeeding years, were by the end of this year sufficiently extensive to be of great value in connection with our courses in Plants, Planting, and Planting Design. The accessions to our various collections and the totals of these collections at the end of the year were as follows:—

| | Totals | Accessions |
|---|--------|------------|
| Books, bound periodicals, and bound pamphlets . . | 1,916 | 103 |
| Unbound pamphlets | 2,139 | 217 |
| Maps and plans, including those deposited indefinitely by the American Society of Landscape Architects, approx. | 2,650 | 150 |
| Photographs, approx. | 4,375 | 64 |
| Postcards, approx. | 13,600 | 900 |
| Lantern slides | 4,454 | 258 |
| Models | 4 | 0 |

It will always be a noteworthy fact that by the first of June the School was empty except for one older man who had entered a few

weeks before for special work, so active had been the enlistment in various branches of war service. It is also a special satisfaction to the School that it was possible to guide the greater portion of its students into fields of special service where their measure of professional training could be turned to direct account. Particularly was this the case with those who had already had our courses in City Planning and were therefore in demand for both office and field service in connection with the design and construction of the new cantonments. During the summer, also, every member of our staff has been in some form of war service except Mr. Hamblin, who was needed here to conduct our first summer course on Trees and Shrubs.

JAMES STURGIS PRAY,
Chairman.

THE BUSSEY INSTITUTION

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — As Dean of the Bussey Institution I have the honor to present the following report for the year 1916-17:

During the year and including the summer term fifteen graduate students were registered at the Bussey Institution, twelve in Applied Biology and three in Forestry. The numbers attending the various courses given by members of the Faculty both at Cambridge and at Forest Hills are as follows:

| | | |
|----------------|--|----|
| Zoölogy | 7a (Morphology and Classification of Insects)..... | 3 |
| " | 7b (Habits and Distribution of Insects)..... | 3 |
| " | 7c (Practical Entomology)..... | 2 |
| " | 18 (Tropical Entomology; Medicine 706)..... | 3 |
| " | 20f (Research in Economic Entomology)..... | 5 |
| " | 2 (Genetics and Eugenics)..... | 58 |
| " | 20d (Research in Variation, Heredity, etc.)..... | 2 |
| Botany | 11 (Principles of Genetics)..... | 5 |
| " | 20 (Research in Plant Genetics)..... | 5 |
| " | 15 (Economic Botany)..... | 5 |
| Forestry | 20a (Research in Dendrology)..... | 3 |
| | Principles of Forestry..... | 2 |
| Applied Botany | 20b | 1 |
| Total..... | | 97 |

At Commencement, 1917, the degree of Master of Science was conferred on Messrs. L. C. Dunn, H. R. Hagan, C. B. Hutchison, and K. Sax; the degree of Doctor of Science on Messrs. G. F. Freeman and H. M. Parshley. Mr. Freeman's thesis is entitled "The Heredity of Quantitative Characters in Wheat. Part I"; that of Mr. Parshley, "The Hemiptera-Heteroptera of New England."

In March 1917, Professor Oakes Ames established a scholarship at the Bussey Institution in memory of his mother, Mrs. Anna C. Ames. The recipient of this scholarship, if a zoölogist, is required to take at least one of the courses in Botany offered by the University; if a botanist, at least one course in Zoölogy. It is Professor Ames's wish that "some reference book of permanent value, suitably inscribed in memory of Anna C. Ames, be given the recipient. The amount set aside for this purpose is not to exceed twenty-five dollars in any one year." On recommendation of the

Faculty, Mr. Woon Young Chun was appointed to the Anna C. Ames scholarship for the academic year 1917-18.

In addition to his teaching at Cambridge, Professor Castle has continued his investigations under the Carnegie Institution grant on heredity in small mammals. In this work he was assisted by Mr. L. C. Dunn. Professor W. M. Barrows, on leave from the Ohio State University, investigated the effects of radium on the life-cycle of *Drosophila*. His studies, though incomplete as yet, give promise of valuable results.

A very unusual opportunity for genetic investigation among dairy cattle became available last spring through the generosity of Mrs. T. J. Bowlker and was gladly accepted by Professor Castle. The late T. J. Bowlker of South Framingham, Mass., a member of the Bussey Visiting Committee, conceived the idea some years ago of applying to the breeding of dairy cattle the newly discovered principles of Mendelian heredity. He sought to combine in one new breed the superiority of the Holstein for producing milk in large quantity and the superiority of the Guernsey for producing milk of excellent quality, reasoning that if these breed characteristics mendelize, as current theory assumes that all inherited characteristics do, the desired combination should be obtainable in the second generation from a cross between the two breeds. He hoped thus to secure a new breed of dairy cattle which would produce much milk of excellent quality. Beyond the immediately practical end in view, it was certain that if the experiment succeeded a general principle wholly new to the practice of cattle breeding and of the greatest potential value to it would be established. Mr. Bowlker made systematic preparations for giving his idea a thorough trial by building up a herd of healthy, tuberculin-tested cows, comprising only registered Holsteins and Guernseys. As a result of the crosses made by Mr. Bowlker up to January, 1917, a total of 72 heifer calves had been produced besides a like number of bull calves, only a few of which were reserved for breeding. At present over 20 of the cross-bred heifers have calved and are giving milk. Their records for quantity and quality of milk production are very promising. It seems probable that they will prove more economical as producers of high grade milk than either pure Holsteins or pure Guernseys, but it remains to be seen whether this excellence will persist into the critical second generation. Mr. Bowlker unfortunately did not live to see this question settled, but his plans were so well laid and their execution so far advanced that it should be possible within two or three years to

determine how the chief question involved is coming out. Professor Castle, who was requested by Mrs. Bowlker to assist in continuing the experiments, has devoted much time to studying Mr. Bowlker's records, which, beginning in 1911 and continuing down to the present, are a mine of valuable information about the animals and the amount (weight) and quality of milk given each day by each cow in the herd. The records previously unanalyzed have been tabulated and card-catalogued so that it is now possible readily to compare the performance of mother and daughter of corresponding ages, as regards milk-production, of family with family, or of breed with breed and with cross-breed. We may look forward with great interest to the information to be given by the critical second generation of cross-breeds now being produced. This should teach us whether or not the characteristics of dairy cattle follow Mendel's law in heredity; if so, whether the inheritance is by simple or multiple factors; if not, whether the apparent good qualities of the first generation cross-breeds will be retained by any considerable percentage of the second generation, and finally whether a permanent breed like the first generation cross-breeds can be produced.

The office of the Botanical Raw Products Committee of the National Research Council has been located at the Bussey Institution, owing to the fact that two of the members of its Faculty, Professor East (Chairman) and Professor Ames, are also members of the Committee. This Committee has been organized to serve as a clearing house where manufacturers needing raw products of a botanical nature may obtain information in regard to them. Its proposed activities may be grouped under the following heads:

1. The collection of agricultural, botanical and commercial data on all species and varieties of plants having an economic value (exclusive of food staples).
2. Dissemination of such information among importers and manufacturers.
3. Investigation of requirements of the trade for known raw materials.
4. The discovery of new geographic sources of plants necessary to the trade.
5. The development of plans for meeting the needs of industry by the cultivation of economic plants in the United States.
6. The initiation of investigations calculated to discover the value of conventional equivalents and substitutes for raw products of a botanical nature.

7. The discovery and investigation of the value of new equivalents and substitutes.

8. The investigation of the requirements of the trade for new raw materials.

9. The suggestion of new species, as possibly meeting trade requirements, and the initiation of the proper investigation as to whether or not they meet the requirements.

10. The suggestion of new uses for botanical raw products.

Though initiated as a war service, this work is a natural extension of the work of the Laboratory of Economic Botany. It is hoped that it will be a means of making botany of more immediate and vital service to commerce and industry.

Professor East has continued his work in breeding tobaccos and other economic plants. Professor Ames, in addition to developing his course in economic botany during the spring term, has built up at the Bussey Institution a large and very valuable collection of useful plants and their products. Eventually this collection will require much additional space and will constitute a museum of interest to the general public as well as to the student.

Professor Bailey has continued his investigations concerning the effects of environmental factors upon the form, structure and distribution of arborescent plants. He has given particular attention to size variation in the tracheary elements ("wood-fibres") of the Gymnosperms and Angiosperms. A wide range of material from different orders and families, and from different phytogeographical regions, has been studied, and results of theoretical and economic interest secured.

Recently Professor Bailey has been requested by the Executive Committee of the National Research Council to organize a permanent Forestry Committee of the Council. This Committee will endeavor not only to assist the Government in the study of war problems but also to promote and coördinate research in Forestry. Questions concerning the properties, seasoning, grading and utilization of wood and other forest products used in connection with the war, — *e.g.*, air-planes, — will be considered by special sub-committees. A Sub-committee on Forest Raw Materials will coöperate with the Botanical Raw Products Committee in making a survey of economic plant products, their properties, sources of supply, utilization, etc.

The work on the diseases of insects has been continued by Dr. Rudolph Glaser in coöperation with the Federal Bureau of Entomology. During the past summer he studied the parasitism of

Gordius, which in Vermont has assumed economic importance as a destroyer of grasshoppers.

Professor Brues, in addition to his teaching and in helping me to look after the research students in entomology, has worked up several collections of parasitic Hymenoptera and has completed his investigations on insects as carriers of poliomyelitis. His report has been published by the New York Health Department.

My own work on the taxonomy, distribution and behavior of ants has been continued. Several papers on the ant-faunas of Alaska, the Galapagos and Cocos Islands, Jamaica and Australia have been published or are in press. Considerable work has also been done on the ants of the Philippines and on a large collection made by the American Museum Expedition to the Congo. During July and August I took part in the Cornell Biological Expedition to New Mexico, Arizona and California, and secured many thousand specimens of several insect orders for the collections of the Bussey Institution.

In conclusion I beg leave to include Professor Fisher's report on the work that has been carried on under his direction in the Harvard Forest at Petersham.

WILLIAM MORTON WHEELER, *Dean*.

REPORT ON THE HARVARD FOREST

In a year when technical work has been greatly interrupted, the most notable event in the Department of Forestry has been the gift of \$50,000 from Mrs. William H. Bliss, announced at Commencement. The significance and timeliness of this gift lie in the fact that by the stipulation of the donor "one half of the income is to be applied towards the establishment and support of scholarships in the Division of Forestry." Particularly since graduate research and specialization have replaced all undergraduate and formal instruction, the Department of Forestry, in common with other departments in the School of Applied Biology, has felt the need of funds available for aiding students, some of the most promising of whom are unable without aid to devote an unproductive year to higher training. In addition to substantial help toward the general expenses of instruction or research, for which the balance of the income is to be used, the new gift thus provides a generous sum (between \$1100 and \$1200) that may be assigned by the

Faculty of Applied Biology annually to qualified applicants, either as several assignments or at its discretion, and, in the case of a man capable of exceptional work, as a single scholarship.

Since late in the winter of 1917, the Director of the Forest and Mr. L. R. Grose, Assistant in Forestry, have devoted the greater part of their time to supervising the local campaign for increased food production. They have served respectively as chairman and secretary of the Petersham Committee on Food Production and Conservation organized at the request of the Massachusetts Committee of Safety. The response of the townspeople was prompt and effective. A fund of nearly \$2,000 was raised in a few days. The Committee established an office and storehouse, registered the needs and capacities for help of as many people as possible, and furnished at cost (giving credit where needed) seed, fertilizer, the use of farm machinery, the services of men and teams, and over 3,000 preserve jars. For three months of the summer Milton Academy maintained a camp of its older boys, whose services were distributed daily among the farms and collected for by the Committee. Nothing in the whole season's work was more satisfactory than the success of the Milton Camp. In spite of initial doubts on the part of the farmers, the boys gained the unanimous respect of their employers, who have all expressed the hope that the camp will be repeated next year. Either through supplies or labor the Food Committee dealt with nearly two hundred people between April and October. It organized also the house to house canvass for the Food Administration at Washington, and with the aid of the Milton Camp conducted a census of farm products and resources, and compiled a farm map and geographical mailing list. The tangible results of the year's work were an increase in staple crops over the previous season's figures of from ten to one hundred percent, and the beginnings of a consciousness of the possible benefits of community coöperation.

On the Forest itself the whole working force has been mainly occupied in farming; and no new projects have been undertaken. The routine of management and records of existing operations has required all the spare time that was available. The physical condition of the property continues to improve and the recent advance in lumber prices is making possible a still more intensive treatment of the Forest. A special effort is being made to meet the need of wood as a substitute for coal by cutting a larger amount during the coming winter. To facilitate deliveries both of wood and lumber and to take advantage of the improved roads lately completed

through the town, a two-ton motor truck has been purchased. It will thus be possible by reaching a wider market to utilize products that were formerly only an obstacle to the scientific handling of the forest crop.

In the last report there was given an approximate statement of the amount of increased forest production brought about up to date. Part of this increase has resulted from the cutting operations for improvement and reproduction. The rest is due to the gradual replanting, with nursery stock raised on the Forest, of vacant lands and areas where natural reproduction has not been sufficient. The extent of progress in this direction, including also plantations for experiment and not primarily for maintenance of the forest crop, is shown in the following summaries:—

SUMMARY OF PLANTATIONS — FALL, 1917

Vacant land afforested:

| | |
|--------------------------|------------|
| White pine | 31.9 acres |
| Red pine | 3.0 |
| Norway spruce | 5.2 |
| Scotch pine | 2.0 |
| European larch | 2.3 |
| | <hr/> |
| Total | 44.4 |

Cut-over land reforested wholly or in part by planting:

| | |
|-------------------------|-------|
| White pine | 8.1 |
| Norway spruce | 2.8 |
| | <hr/> |
| Total | 10.9 |

Experimental plantations:

| | | |
|-----------------------|---|------------|
| Western yellow pine | } | 5.0 |
| Douglas fir | | |
| Japanese larch | | |
| Red oak | | |
| White ash | | |
| Hardy catalpa | | |
| Pinus densiflora | | |
| Pinus thunbergii | | |
| White pine | | |
| Red pine | | |
| Norway spruce | | |
| Grand total | | 60.3 acres |

INVENTORY OF NURSERY STOCK — FALL, 1917

| Species | Seedlings 1 and 2 years old | Transplants, 3, 4, and 5 years old |
|--------------------|--------------------------------|---------------------------------------|
| White pine..... | 28,000 | 20,200 |
| Red pine..... | 25,000 | 20,800 |
| Norway spruce..... | .... | 3,900 |
| | <hr/> | <hr/> |
| Totals..... | 53,000 | 44,900 |

R. T. FISHER, *Director*.

THE DIVINITY SCHOOL

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR,— As Dean of the Divinity School, I have the honor to present the following report for the year 1916-17.

The most noteworthy event of the year was the celebration of the one hundredth anniversary of the foundation of the School, which was held under the auspices of the Alumni Association on the afternoon and evening of October fifth. The occasion was in every way successful: the attendance was large; the historical addresses by Rev. Robert S. Morison, Librarian Emeritus, and Dr. Charles W. Eliot, President Emeritus, gave an exceptionally valuable account, the former of the earlier, and the latter of the recent history of the School, and the after-dinner speeches bore remarkable testimony to the widespread influence of the School and the fidelity with which its catholic and scholarly ideals have been maintained. The School is greatly indebted to the Alumni Association for the wisdom with which the celebration was planned and the efficiency with which it was conducted. The addresses published in pamphlet form will undoubtedly serve to promote better knowledge of the School and to strengthen its constitutive principles. The School is also under great obligations to the Alumni Association for the welcome addition to its endowment funds of some \$20,000 raised by a committee of the Association of which the Rev. Paul Revere Frothingham was chairman. It is earnestly hoped that the endowment of the Francis Greenwood Peabody Professorship of Social Ethics and Pastoral Care, towards which this amount was contributed, will soon be completed, for the present funds of the School are quite insufficient to meet the demands made by the enlarging field of theological learning, and the diversified occupations for which a modern minister must be trained. Nothing could be more gratifying to the Faculty and friends of the School than to have such assurances as the Alumni Association has given of the place which it holds in the affectionate gratitude of its former students.

The work of the second half-year was painfully ragged, unavoidably so in the circumstances. Since the beginning of the war its effects have been felt increasingly in our class-rooms, and the entrance into it of our own country produced excitement and dis-

traction which interfered grievously with academic work. The attendance upon classes kept up remarkably well, but it was creditably impossible to concentrate attention upon studious pursuits. In addition three members of our Faculty were not in residence. Professor Ropes was absent as Visiting Professor to Western Colleges; Professor Emerton had been granted a sabbatic half-year, and Professor E. C. Moore was compelled to give up his work on account of illness. It was peculiarly unfortunate that while both of our teachers in the department of Church History were away, Professor Washburn of the same department in the Episcopal Theological School was obliged by illness to drop his courses. We are deeply indebted to Professor Platner of Andover for narrowing this wide gap in our curriculum, and also to Professor Evans who generously carried through to the end of the first half-year one of Professor E. C. Moore's courses which he was obliged to give up after the Christmas recess. A new course offered by Dr. George La Piana, Austin Teaching Fellow, upon the History of the Roman Catholic Church since the Council of Trent, was well attended and highly appreciated.

The renewal of the affiliation agreements with the Episcopal Theological School, Boston University School of Theology, and Newton Theological Institution is evidence of the success which has attended this interesting experiment. By the addition of a reciprocal clause in the arrangement with the Boston University School of Theology, its numerous courses in Religious Education are now open to our students, who are thus afforded opportunities in this important field which hitherto we have poorly supplied.

During the past year sixty-nine students were in residence during the entire year, one student withdrew in November, three at the close of the first half-year, and one in April, and nine new students were enrolled at the beginning of the second half-year. The distribution of the total enrolment was as follows:—

| | |
|---|-----------|
| Resident Graduates | 22 |
| Senior Class | 7 |
| Middle Class | 1 |
| Junior Class | 2 |
| Unclassified Students | 4 |
| Andover Students | 25 |
| Episcopal Theological School Students | 7 |
| Boston University School of Theology Students | 8 |
| Newton Theological Institution Students | 7 |
| Total | 83 |

Fifty-two colleges were represented as follows:

| | | | |
|--------------------------------|---|----------------------------------|----|
| Acadia University | 2 | Mount Union College | 1 |
| Baldwin-Wallace College | 1 | Nebraska Wesleyan University . | 1 |
| Bates College | 1 | Northwestern University | 3 |
| Boston University | 3 | Ohio Wesleyan University | 2 |
| Bowdoin College | 3 | Ottawa University, Kansas | 1 |
| Brown University | 1 | Otterbein University | 1 |
| Butler College | 1 | Simpson College | 1 |
| Carson and Newman College | 1 | Syrian Protestant College | 3 |
| Central Turkey College | 1 | Transylvania University | 1 |
| Clark University | 2 | Trinity College | 1 |
| Colby College | 2 | Tufts College | 3 |
| Columbia University | 2 | Union College | 1 |
| Dartmouth College | 2 | University of Athens | 1 |
| Drury College | 1 | University of Cincinnati | 1 |
| Durham University | 1 | University of North Dakota | 1 |
| Ellsworth College | 1 | University of Pennsylvania | 1 |
| Harvard University | 8 | University of Toronto | 1 |
| Hiram College | 1 | University of Vermont | 1 |
| Hobart College | 1 | University of Wisconsin | 1 |
| Hope College | 1 | Washburn College | 1 |
| Iowa Wesleyan University | 2 | Wesleyan University | 2 |
| Knox College | 2 | Western Maryland College | 1 |
| McGill University | 2 | Yale University | 2 |
| Marietta College | 2 | Yankton College | 2 |
| Mercer University | 2 | | — |
| Missouri Valley College | 1 | | 83 |
| Morningside College | 1 | Counted more than once | 20 |
| Mount Allison University | 1 | | — |
| | | | 63 |

Seventeen theological seminaries were represented by graduates as follows:—

| | | | |
|--|---|--|----|
| Andover Theological Seminary .. | 4 | Newton Theological Institution . | 6 |
| Boston University School of Theology | 7 | Presbyterian College of Montreal | 1 |
| Chicago Theological Seminary ... | 1 | Rochester Theological Seminary . | 1 |
| Concordia Theological Seminary . | 2 | San Francisco Theological Seminary | 1 |
| Crane Theological Seminary | 1 | Victoria College | 1 |
| Episcopal Theological School ... | 2 | Yale University | 1 |
| Garrett Biblical Institute | 3 | | — |
| General Theological Seminary ... | 1 | | 38 |
| Hartford Theological Seminary .. | 1 | Counted more than once | 7 |
| Harvard University | 4 | | — |
| Meadville Theological Seminary . | 1 | | 31 |

The interchange of instruction between the Faculty of the School and the Faculty of Arts and Sciences indicates the extent of the

contribution made by the Divinity School to the general work of the University. This interchange between the two Faculties in 1916-17 was as follows: —

Divinity students, including Andover, the Episcopal Theological School, Boston University School of Theology and Newton Theological Institution students, electing courses offered primarily by the Faculty of Arts and Sciences: —

| | | H.D.S. | And. | E.T.S. | B.U. | N.T.I. |
|-----------------------------|----|--------|------|--------|------|--------|
| Comparative Literature..... | 1 | 1 | 0 | 0 | 0 | 0 |
| Economics..... | 8 | 3 | 4 | 0 | 0 | 1 |
| Education..... | 5 | 0 | 2 | 0 | 0 | 3 |
| English..... | 7 | 1 | 5 | 1 | 0 | 0 |
| Fine Arts..... | 1 | 0 | 1 | 0 | 0 | 0 |
| German..... | 4 | 2 | 2 | 0 | 0 | 0 |
| Greek..... | 4 | 1 | 3 | 0 | 0 | 0 |
| History..... | 8 | 5 | 2 | 0 | 0 | 1 |
| Philosophy..... | 14 | 5 | 7 | 0 | 1 | 1 |
| Psychology..... | 6 | 2 | 0 | 1 | 2 | 1 |
| Semitic..... | 3 | 3 | 0 | 0 | 0 | 0 |
| Social Ethics..... | 15 | 9 | 1 | 2 | 3 | 0 |
| | 76 | 32 | 27 | 4 | 6 | 7 |

Non-Divinity students electing courses offered primarily by the Divinity School: —

| | | Grads. | Undergr. | Special |
|---------------------------|----|--------|----------|---------|
| Old Testament..... | 25 | 0 | 24 | 1 |
| Church History..... | 16 | 10 | 6 | 0 |
| History of Religions..... | 14 | 7 | 7 | 0 |
| Theology..... | 25 | 9 | 14 | 2 |
| | 80 | 26 | 51 | 3 |

The interchange of instruction between the Harvard Divinity School and Andover Theological Seminary was as follows: —

Harvard Divinity students electing courses offered primarily by Andover Theological Seminary: —

| | |
|---------------------|---|
| New Testament..... | 3 |
| Church History..... | 5 |
| Theology..... | 3 |
| Ethics..... | 3 |
| Homiletics..... | 5 |

Andover students electing courses offered primarily by the Divinity School: —

| | |
|---------------------------|-------|
| New Testament..... | 18 |
| Church History..... | 9 |
| History of Religions..... | 20 |
| Theology..... | 22 |
| Homiletics..... | 1 |
| Public Speaking..... | 3 |
| | <hr/> |
| | 73 |

The interchange of instruction between the Harvard Divinity School and the Episcopal Theological School was as follows: —

Harvard Divinity students electing courses offered primarily by the Episcopal Theological School: —

| | |
|--------------------|---|
| Old Testament..... | 2 |
|--------------------|---|

Episcopal Theological School students electing courses offered primarily by the Divinity School: —

| | |
|---------------------------|-------|
| New Testament..... | 3 |
| History of Religions..... | 3 |
| | <hr/> |
| | 6 |

Boston University School of Theology students electing courses offered primarily by the Divinity School: —

| | |
|---------------------------|-------|
| Old Testament..... | 1 |
| New Testament..... | 3 |
| History of Religions..... | 1 |
| | <hr/> |
| | 5 |

Newton Theological Institution students electing courses offered primarily by the Divinity School: —

| | |
|---------------------------|-------|
| Old Testament..... | 1 |
| Church History..... | 3 |
| History of Religions..... | 2 |
| Theology..... | 1 |
| | <hr/> |
| | 7 |

Seven members of the School received the degree of S.T.M., and five the degree of S.T.B.

The following is a list of the courses of instruction given in the School in the year 1916-17. With each course is a statement of the number of students electing it from the Divinity School,

Andover Theological Seminary, the Episcopal Theological School, Boston University School of Theology, Newton Theological Institution, the Graduate School of Arts and Sciences, and Harvard College. In the courses given in the affiliated schools and taken only by students in those schools, no record of attendance is given. No record is made in cases where a student registered primarily in Andover or the Episcopal School enrolled for a course in the other institution without registration in the Harvard Divinity School.

COURSES OF INSTRUCTION

OLD TESTAMENT

- E1. Professor KELLNER. — Hebrew for Beginners. 1 Div., 5 Coll.
2. Professor LYON. — Hebrew (second course). — Syntax. Extensive reading in the Old Testament. 3 Div., 1 Coll.
- E2 ¹/₂f. Professor KELLNER. — Hebrew. Exegetical study of the prophet Isaiah-ben-Amos. *Half-course (first half-year)*.
4. Professor LYON. — The Old Testament, with special reference to the History and the Literature of Israel. 2 Div., 18 Coll., 1 Sp.
- E4 ¹/₂f. Professor KELLNER. — Hebrew. Sight-reading in Genesis, Deuteronomy, Kings, Jonah, Ruth, and Esther. *Half-course (second half-year)*.
- E5a ¹/₂f. Professor KELLNER. — Old Testament Introduction: The composition of the Hexateuch; the Historical Books, and the Moral Tales. *Half-course (first half-year)*. 1 And.
- E5b ¹/₂f. Professor KELLNER. — Old Testament Introduction: The Prophetical Books, the Poetical Books, and the Wisdom Literature. *Half-course (second half-year)*. 1 And.
- E6 ¹/₂f. Professor FOSBROKE. — History of Israel. *Half-course (first half-year)*. 1 Div.
- E7 ¹/₂f. Professor FOSBROKE. — Religion of Israel. *Half-course (first half-year)*.
10. Professor LYON. — Assyrian. 3 Div.
17. Dr. WOLFSON. — Jewish Aramaic. — The Aramaic portions of Daniel and Ezra; inscriptions and papyri; selections from the Targums; Marti's *Biblisch-Aramäische Grammatik*; Staerk's and Ungnad's editions of the Aramaic papyri of Elephantine; Dalman's *Aramäische Dialektproben*. 1 B.U., 1 N.T.I.
19. Professor JEWETT and Mr. THOMSON. — Syriac (second course). Nöldeke's *Syriac Grammar*; selections from Syriac prose of the classical period. 2 Div.
- E20 ¹/₂f. Professor FOSBROKE. — Research work. *Half-course (first half-year)*. A course in research work for properly qualified applicants, subject and hours of meeting to be determined after conference.

NEW TESTAMENT

1. The New Testament.
 - (a) Professor ROPES. — The Books of the New Testament. (*First half-year.*) 5 Div., 8 And., 1 E.T.S.
 - (b) Professor LAKE. — The Ideas of the New Testament. (*Second half-year.*) 5 Div., 7 And., 2 B.U.
- E1a ¹/₂f. Asst. Professor GOOKIN. — Introduction to the Sources of the Apostolic Age. (The Epistles and Acts.) *Half-course (first half-year).*
- E1b ¹/₂f. Asst. Professor GOOKIN. — Introduction to the Sources of the Life of Christ. (The Synoptic Problem.) *Half-course (second half-year).*
- 3 ¹/₂f. Professor ROPES. — The Gospel of Matthew. *Half-course (first half-year).* 4 Div., 2 And., 2 E.T.S., 1 B.U., 1 Radcliffe.
- E3 ¹/₂f. Asst. Professor GOOKIN. — The Exegesis of the Epistle to the Romans. *Half-course (second half-year).*
- E4 ¹/₂f. Asst. Professor GOOKIN. — Studies in the Life of Christ. *Half-course (first half-year).*
- E5 ¹/₂f. Asst. Professor GOOKIN. — Studies in the Teachings of Jesus. *Half-course (second half-year).*
- A7 ¹/₂f. Professor RYDER. — The Acts of the Apostles. *Half-course (first half-year).* 1 Div., 5 And.
- A10 ¹/₂f. Professor RYDER. — The Epistles of John, and the Apocalypse. *Half-course (second half-year).*
- 15 ¹/₂f. Professor FENN. — The Theological Method of Jesus and Paul. *Half-course (first half-year).* 3 Div., 1 And.
- A16. Professor HINCKS. — Theology of the New Testament. 2 Div., 9 And.
20. Professors RYDER, ROPES, and LAKE. — Advanced study and research. Special work of competent advanced students on such topics of New Testament study as they may desire to undertake. 2 Div.

CHURCH HISTORY

- A1. Professor PLATNER. — History of the Church in Outline. 2 Div., 10 And., 2 Coll.
- E1. Professor WASHBURN. — The History of the Church and of Doctrine during the first ten centuries.
- 2 ¹/₂f. Professor EMBERTON. — The Church in the Middle Ages from Charlemagne to Dante. — Formation of the European States. The Holy Roman Empire. The Roman Papal System as the controlling force in European Life. *Half-course (first half-year).* 5 Div., 1 And., 5 Gr., 3 Coll.
- E2. Professor WASHBURN. — The History of the Church and of Doctrine from the beginning of the eleventh century to the present day.
- A3. Professor PLATNER. — Christian Institutions, historically and comparatively considered. 3 Div., 6 And., 1 Coll.
- E3 ¹/₂f. Professor WASHBURN. — The English Church; the English State and the Papacy from the beginning to the Reformation. *Half-course (first half-year).*

- 4a ¹/₂f. Professor EDWARD C. MOORE. — History of Christian Life and Institutions in Europe since the Reformation. *Half-course (first half-year)*.
3 Div., 3 And., 4 Gr., 3 Coll.
- E4 ¹/₂f. Professor WASHBURN. — Four English Churchmen. *Half-course (second half-year)*.
- 5¹. Professor EMERTON. — History of Christian Thought, considered in its relation to the prevailing philosophy of each period, from the earliest time to the Eighteenth Century. *First half-year*.
11 Div., 2 And., 1 Gr.
- A5 ¹/₂f. Professor PLATNER. — History of the Church in America. *Half-course (first half-year)*.
- 7 ¹/₂f. Professor LAKE. — Eusebius. *Historia Ecclesiastica*. *Half-course (first half-year)*.
2 Div.
- 49 ¹/₂f. Professor PLATNER. — Modern Foreign Missions. *Half-course (second half-year)*.
- 10 ¹/₂f. Dr. LA PIANA. — The Roman Catholic Church from the Council of Trent to the Present Day. *Half-course (second half-year)*.
7 Div., 3 And., 3 N.T.I.
- 20 ¹/₂f. Professor EMERTON. — Practice in the Study and Use of Materials for Church History.
1 Div.

HISTORY OF RELIGIONS

- 2 ¹/₂f. Professor G. F. MOORE. — History of Religions in Outline. *Half-course (second half-year)*.
14 Div., 7 And., 3 E.T.S., 2 N.T.I., 7 Gr., 5 Coll.
6. Professor G. F. MOORE. — The Religion of Israel; Judaism.
13 Div., 8 And.
9. Professor LAKE. — The Beginnings of Christianity.
7 Div., 3 And., 1 B.U., 2 Coll.
- E9 ¹/₂f. Rt. Rev. LOGAN H. ROOTS and Rev. JAMES THAYER ADDISON. — Christian Missions in China in Relation to the Chinese Religions. *Half-course (first half-year)*.
- 20a. Professor G. F. MOORE, with Professors ROPES and LAKE. — Conference. The Formation of Early Christian Tradition. 4 Div.
- 20z. Professor G. F. MOORE directed the reading and investigations of properly qualified students in the general history of religion or in particular fields.
2 Div., 2 And.

THEOLOGY

- 1 ¹/₂f. Professor FENN. — Theism. *Half-course (first half-year)*.
9 Div., 9 And., 2 Gr., 4 Coll.
- A1 ¹/₂f. Professor EVANS. — The Philosophic Basis of the Christian Religion. *Half-course (first half-year)*.
1 Div., 6 And., 2 Coll.
- E1. Professor DROWN. — The System of Christian Doctrine.
- 2¹. Professor FENN. — Outlines of Systematic Theology. (*Second half-year*).
8 Div., 5 And.

- A2. Professor EVANS. — Systematic Theology. The Distinctive Truths of Christianity. 2 Div., 4 And.
- 3 ¹/_{hf}. Professor FENN. — New England Theology. *Half-course (first half-year)*. 2 Div., 2 And.
- E3 ¹/_{hf}. Professor DROWN. — Apologetics: Philosophy of Religion, and the Defence of the Christian Faith. *Half-course (second half-year)*.
- 5 ¹/_{hf}. Professor FENN. — The History and Philosophy of Christian Mysticism. *Half-course (second half-year)*. 5 Div., 3 And.
- E5 ¹/_{hf}. Professor DROWN. — A Historical Study of the Doctrines of the Atonement and of Justification. *Half-course (second half-year)*.
- 6 ¹/_{hf}. Professor EDWARD C. MOORE. — History of Christian Thought since 1630. *Half-course (first half-year)*. 4 Div., 2 And., 1 N.T.I., 2 Gr., 6 Coll., 1 Sp.
- 10 ¹/_{hf}. Professor EDWARD C. MOORE. — Philosophy of Religion. *Half-course (first half-year)*. 6 Div., 1 And., 5 Gr., 2 Coll., 1 Sp.

ETHICS

1. Asst. Professors FOERSTER and FORD. — Social Problems and Social Policy. — Lectures, prescribed reading, theses. 3 Div., 1 E.T.S.
- A3 ¹/_{hf}. Professor EVANS. — Christian Ethics. *Half-course (second half-year)*. 3 Div., 5 And.
- E3 ¹/_{hf}. Professor DROWN. — Christian Ethics. *Half-course (first half-year)*.

HOMILETICS AND PASTORAL CARE

- A1. Professor FITCH. — The Office and Technique of the Preacher. 2 Div., 10 And.
- E1 ¹/_{hf}. Professor HODGES. — The History and Use of the Book of Common Prayer. *Half-course (first half-year)*.
2. Professor FITCH and Asst. Professor FOOTE. — Preaching. *Wed., at 4.30.* 6 Div., 8 And.
- E2 ¹/_{hf}. Professor HODGES. — Pastoral Care. *Half-course (second half-year)*.
- E3. Professor HODGES. — Preaching.
- A4. Professor FITCH. — The Preacher's Use of the Old and New Testaments. 2 Div., 6 And., 2 E.T.S., 1 N.T.I.
- E4 ¹/_{hf}. Professor HODGES. — The English Bible. *Half-course (second half-year)*.
- 5 ¹/_{hf}. Asst. Professor FOOTE. — The Minister's Relation to Social Agencies. *Half-course (first half-year)*. 3 Div., 1 And.
- E5 ¹/_{hf}. The Principles of Religious Education. *Half-course (first half-year)*. Lectures by invited speakers, and conferences, under the direction of Asst. Professor GOOKIN.
- 7 ¹/_{hf}. Asst. Professor FOOTE. — Hymns and Hymn Writers of the Christian Church. *Half-course (second half-year)*. 2 Div.
- A11. Dr. DAVISON. — The History and Development of Church Music.
- A12 ¹/_{hf}. Dr. DAVISON. — The Conduct of Church Music. *Half-course*.

- A13. Dr. DAVISON. — Hymn Tunes and their History. 1 Div.
 E. Mr. APPEL. — Choral Singing 1.
 E. Mr. APPEL. — Choral Singing 2.
 E. Mr. APPEL. — Choral Singing 3. Masterpieces of Sacred Music.
 E. Mr. APPEL. — Organ Playing.

PUBLIC SPEAKING

1. Mr. CHENOWETH. — Training in Voice and Speech. — Preparatory to Course 2. 5 Div.
 2 hf. Associate Professor WINTER and an assistant. — Sermon Delivery, Scripture Reading, Oral Discussion. *Half-course throughout the year.* 6 Div., 3 And.
 E1. Mr. PAUL. — Voice Development.
 E2. Mr. PAUL. — The Voice in Reading and Speaking.
 E3. Mr. PAUL. — The Voice of the Preacher.

During the past year there were added to the Andover-Harvard Library 734 volumes and 1,103 pamphlets by purchase, and 505 volumes and 2,241 pamphlets by gift, making the total of books in the combined libraries 109,321 and of pamphlets 56,270. Of these additions there are credited to the Harvard Divinity School by purchase 322 volumes and 441 pamphlets, and by gift 230 volumes and 1,365 pamphlets, making the total of books owned by the Harvard Divinity School, and contained in the Andover-Harvard Library, 42,698 and of pamphlets 15,798.

W. W. FENN, *Dean.*

THE LAW SCHOOL

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I have the honor to present my report upon the Law School for the academic year 1916-17.

On April 24, 1916, the Faculty of Law adopted the following resolutions:—

1. *Third-Year Students.* Third-year students actually in the service of the United States or actually called into the service of the United States prior to the end of the school year, including such students as shall be accepted in federal training camps, will be excused from residence from the date at which they are so actually called into service or accepted in training camps, and, if their record at the present date is such that, if continued, they would be recommended for a degree in June, 1917, they will be recommended therefor.
2. *Second-Year Students.* Any second-year student in full and regular standing actually called into the service of the United States, as above defined, now or before the end of the school year, will be excused from residence from the date at which he is so actually called into service. Such students may return and complete their third year, and if they take successfully all their third-year examinations, such examinations will also be accepted in lieu of second-year examinations.
3. *First-Year Students.* Any first-year student who has been in regular attendance up to the date of his actual calling into the service of the United States, as above defined, who is so called into the service prior to the end of the school year, will be excused from residence from the date at which he is so actually called into service. Such students may return and complete their second year, and if they take successfully all their second-year examinations, such examinations will also be accepted in lieu of first-year examinations.

Similar provision was made for law students who entered the Harvard Reserve Officers' Training Corps in case they subsequently entered the service or applied for admission to federal training camps.

As the Law School admits college graduates only, its students were all of military age under the Act of Congress, and formed a picked body of men peculiarly adapted, and hence specially called, to enter the officers' training camps opened by the federal government early in May. Accordingly nearly every able-bodied student in the School not already in the National Guard or the Naval Re-

| Year | Whole No. of Students | Total of College Graduates | Harvard Graduates | Graduates of other Colleges | Non-Graduates | Per cent of College Graduates | No. of Colleges represented | Degrees conferred |
|----------|-----------------------|----------------------------|-------------------|-----------------------------|---------------|-------------------------------|-----------------------------|-------------------|
| 1870-71 | 165 | 77 | 27 | 50 | 88 | 47 | 27 | |
| 1871-72 | 138 | 70 | 34 | 36 | 68 | 51 | 25 | |
| 1872-73 | 117 | 66 | 34 | 32 | 51 | 56 | 25 | |
| 1873-74 | 141 | 86 | 49 | 37 | 55 | 61 | 25 | |
| 1874-75 | 144 | 82 | 63 | 19 | 62 | 57 | 18 | |
| 1875-76 | 173 | 93 | 60 | 33 | 80 | 54 | 25 | |
| 1876-77 | 199 | 116 | 74 | 42 | 83 | 58 | 30 | |
| 1877-78 | 196 | 121 | 80 | 41 | 75 | 62 | 30 | |
| 1878-79 | 169 | 109 | 71 | 38 | 60 | 64 | 24 | 11 |
| 1879-80 | 177 | 118 | 90 | 28 | 59 | 66 | 20 | 18 |
| 1880-81 | 161 | 112 | 82 | 30 | 49 | 70 | 19 | 18 |
| 1881-82 | 161 | 99 | 66 | 33 | 62 | 61 | 22 | 33 |
| 1882-83 | 138 | 93 | 58 | 35 | 45 | 67 | 32 | 19 |
| 1883-84 | 150 | 105 | 75 | 30 | 45 | 70 | 25 | 24 |
| 1884-85 | 156 | 122 | 85 | 37 | 34 | 78 | 31 | 18 |
| 1885-86 | 158 | 122 | 83 | 39 | 36 | 77 | 29 | 18 |
| 1886-87 | 188 | 143 | 88 | 55 | 45 | 76 | 34 | 26 |
| 1887-88 | 225 | 158 | 102 | 56 | 67 | 70 | 32 | 33 |
| 1888-89 | 225 | 158 | 105 | 53 | 67 | 70 | 32 | 28 |
| 1889-90 | 262 | 189 | 122 | 67 | 73 | 72 | 41 | 48 |
| 1890-91 | 285 | 200 | 135 | 65 | 85 | 70 | 33 | 46 |
| 1891-92 | 370 | 257 | 140 | 117 | 113 | 69 | 48 | 55 |
| 1892-93 | 405 | 266 | 132 | 134 | 139 | 66 | 54 | 69 |
| 1893-94 | 367 | 279 | 129 | 150 | 88 | 76 | 56 | 81 |
| 1894-95 | 413 | 310 | 139 | 171 | 108 | 75 | 74 | 92 |
| 1895-96 | 475 | 380 | 171 | 209 | 95 | 80 | 82 | 104 |
| 1896-97 | 490 | 408 | 186 | 222 | 82 | 83 | 82 | 103 |
| 1897-98 | 551 | 490 | 229 | 261 | 61 | 89 | 77 | 131 |
| 1898-99 | 564 | 503 | 212 | 291 | 61 | 89 | 78 | 110 |
| 1899-00 | 613 | 557 | 236 | 321 | 56 | 91 | 67 | 127 |
| 1900-01 | 655 | 605 | 252 | 353 | 50 | 92 | 83 | 137 |
| 1901-02 | 633 | 584 | 247 | 337 | 49 | 92 | 92 | 148 |
| 1902-03 | 644 | 600 | 241 | 359 | 44 | 93 | 94 | 157 |
| 1903-04 | 743 | 695 | 272 | 423 | 48 | 94 | 111 | 173 |
| 1904-05 | 766 | 711 | 286 | 425 | 55 | 93 | 114 | 170 |
| 1905-06 | 727 | 716 | 295 | 421 | 11 | 98 | 118 | 186 |
| 1906-07 | 705 | 696 | 260 | 436 | 9 | 99 | 126 | 184 |
| 1907-08 | 719 | 712 | 276 | 436 | 7 | 99 | 122 | 162 |
| 1908-09 | 690 | 680 | 256 | 424 | 10 | 99 | 121 | 174 |
| 1909-10 | 765 | 759 | 257 | 502 | 6 | 99 | 127 | 193 |
| 1910-11 | 790 | 778 | 240 | 538 | 12 | 98 | 135 | 181 |
| 1911-12 | 809 | 796 | 216 | 580 | 13 | 98 | 145 | 196 ¹ |
| 1912-13 | 745 | 733 | 184 | 549 | 12 | 99 | 134 | 177 ² |
| 1913-14 | 696 | 693 | 176 | 517 | 3 | 99 | 139 | 162 ³ |
| 1914-15 | 730 | 725 | 187 | 538 | 5 | 99 | 144 | 146 ³ |
| 1915-16 | 791 | 786 | 220 | 566 | 5 | 99 | 145 | 174 ⁴ |
| 1916-17 | 857 | 852 | 210 | 642 | 5 | 99 | 155 | 190 ³ |
| 1917-18* | 292 | 288 | 71† | 217 | 4‡ | 99 | 90 | |

* Up to November 5, 1917.

† 8 Harvard Seniors who have completed the full College course, but have not received their diplomas, are reckoned as graduates. Prior to 1905-06 Harvard Seniors were not reckoned as graduates but as non-graduates.

‡ All are graduates of law schools.

¹ One of this number received the degree of S.J.D., the remainder that of LL.B.

² Two of this number received the degree of S.J.D., the remainder that of LL.B.

³ Three of this number received the degree of S.J.D., the remainder that of LL.B.

⁴ Six of this number received the degree of S.J.D., the remainder that of LL.B.

| Instructors | Studies and Text-books | Exercises per week | Number of students examined | | | | | | Graduates | |
|----------------------------------|---|--------------------|-----------------------------|---------|---------|--------------|---------|---------------|-----------|--|
| | | | 1st year | 2d year | 3d year | Unclassified | Special | Out of Course | | |
| First Year | | | | | | | | | | |
| Prof. Scott | Civil Procedure at Common Law. Scott's Cases on Civil Procedure . . | 2 | 146 | 1 | 4 | 3 | | 7 | | |
| Prof. Williston | Contracts. Williston's Cases on Contracts | 3 | 153 | 1 | | 4 | | 8 | | |
| Prof. Joseph Warren | Criminal Law. Beale's Cases on Criminal Law (3d ed.) | 14 | 148 | | | 1 | | 5 | | |
| Prof. Hill | Principles of Liability. Beale's Cases on Liability | 14 | 149 | 1 | | 1 | | 4 | | |
| Prof. Beale | Property. Warren's Cases on Property | 2 | 144 | 6 | 4 | 9 | | 13 | | |
| Prof. Edward H. Warren | Torts. Cases on Torts: Ames and Smith (Pound's ed.) | 2 | 149 | | | 3 | | 7 | | |
| Prof. Pound | | | | | | | | | | |
| Prof. Westengard | | | | | | | | | | |
| Second Year | | | | | | | | | | |
| Prof. Wambaugh | Agency. Wambaugh's Cases on Agency | 2 | 144 | 4 | 4 | 8 | | 6 | | |
| Asst. Prof. Chafec | Bills and Notes. Ames's Cases on Bills and Notes and Brannan's Negotiable Instruments Law (2d ed.) | 2 | 70 | 10 | 7 | 1 | | 2 | | |
| Prof. Pound | Equity. Ames's Cases on Equity Jurisdiction, vol. 1 | 2 | 104 | 1 | 19 | 1 | | 7 | 1 | |
| Prof. Hill | Evidence. Thayer's Cases on Evidence (2d ed.) | 2 | 102 | 7 | 18 | 1 | | 2 | | |
| Prof. Wambaugh | Insurance. Wambaugh's Cases on Insurance | 2 | 3 | 12 | 5 | | | | | |
| Asst. Prof. Chafec | Property. Gray's Cases on Property, vol. 3; Warren's Cases on Wills and Administration | 2 | 101 | | | 17 | 1 | 3 | | |
| Prof. Kales | Public Utilities. Beale's Cases on Carriers (2d ed.). Wyman's Cases on Public Service Companies (2d ed.). Frankfurter's Cases under the Interstate Commerce Act | 2 | 9 | 31 | | 9 | | | 4 | |
| Prof. Joseph Warren | Sales of Personal Property. Williston's Cases on Sales (2d ed.) | 2 | 95 | 8 | | 20 | 1 | 4 | | |
| Prof. Frankfurter | Trusts. Ames's Cases on Trusts (2d ed.); Scott's Cases on Resulting and Constructive Trusts | 2 | 80 | 17 | 18 | 1 | | 6 | | |
| Prof. Williston | Damages. Beale's Cases on Damages (2d ed.) | 1 | 10 | 18 | 8 | | | | 1 | |
| Prof. Scott | Persons. Smith's Cases on Persons. | 1 | 20 | 15 | 12 | | | | | |

Third Year

| | | | | | |
|----------------------------------|--|---|-----|----|---|
| Prof. Beale | Conflict of Laws. Beale's Cases on the Conflict of Laws | 2 | 100 | 13 | 5 |
| Prof. Wambaugh | Constitutional Law. Wambaugh's Cases on Constitutional Law | 2 | 91 | 8 | 3 |
| Prof. Edward H. Warren | Corporations. Warren's Cases on Private Corporations (2d ed.) | 2 | 101 | 12 | 3 |
| Ast. Prof. Chafee | Equity. Ames's Cases on Equity Jurisdiction, vol. 1 (concluded) and vol. 2; Pound's Cases on Equitable Relief against Defamation and Injuries to Personality | 2 | 72 | 3 | 4 |
| Prof. Frankfurter | Partnership. Ames's Cases on Partnership | 2 | 19 | 4 | 2 |
| Prof. Kales | Property. Gray's Cases on Property, vols. 5, 6 (2d ed.) | 2 | 24 | 1 | 2 |
| Prof. Scott | Suretyship and Mortgage. Ames's Cases on Suretyship. Wyman's Cases on Mortgages (revised ed.) | 2 | 68 | 7 | 1 |
| Prof. Westengard | Admiralty. Ames's Cases on Admiralty | 1 | 24 | 2 | 1 |
| Prof. Williston | Bankruptcy. Williston's Cases on Bankruptcy (2d ed.) | 1 | 103 | 11 | 8 |
| Prof. Frankfurter | Federal Jurisdiction | 1 | 1 | 7 | |
| Prof. Beale | Municipal Corporations. Beale's Cases on Municipal Corporations | 1 | 1 | 1 | |
| Prof. Kales | Restraint of Trade. Kales's Cases on Contracts and Combinations in Restriction of Trade | 1 | 23 | 3 | |
| Prof. Joseph Warren | Quasi-Contracts. Scott's Cases on Quasi-Contracts | 1 | 24 | 4 | |
| Graduate Courses | | | | | |
| Prof. Westengard | International Law. Scott's Cases on International Law | 2 | 7 | 1 | 4 |
| Prof. Pound | Jurisprudence | 2 | 5 | | 4 |
| Prof. Pound | Roman Law. Pound's Readings in Roman Law (2d ed.) | 2 | 1 | | 7 |
| Prof. Frankfurter | Administrative Law | 1 | 4 | 1 | |
| Prof. Wambaugh | International Law Problems of the European War | 1 | 1 | | 1 |
| Prof. Scott | Modern Developments in Procedural Law | 1 | | | |
| Prof. Hill | Penal Legislation and Administration | 1 | 4 | | |
| Prof. Beale | Private International Law (Advanced Course) | 1 | | | 3 |

Graduate Courses

[illegible]

serve applied for admission to some one of those camps, and a large number were admitted. Before the end of the school year 2 graduate students out of 10, 187 first-year students out of 334, 131 second-year students out of 234, 56 third-year students out of 213, and 36 unclassified students out of 66, were either in the service or in officers' training camps. Thus 412 out of 857 students left the School and went into the military or naval service during the school year.

The school year 1917-18 opens with 292 students, a little more than one-third of normal registration. Perhaps we may be proud of this registration, reflecting that after offering to the service of the country substantially every able-bodied man in the School, maintaining entrance requirements intact and rejecting for deficiency in scholarship the normal percentage of those examined last year, the School is still going forward with a select student body amply sufficient to maintain its best traditions.

At the end of the school year Professor Kales, who had held an appointment as Professor of Law for one year, retired from teaching to devote his energies wholly to practice. The vacancy was filled by the appointment for one year of Henry Moore Bates, Dean of the Law School of the University of Michigan. Professor Bates comes to the School with an established reputation as a lawyer and a teacher. Professor Wambaugh and Professor Frankfurter have leave of absence for the school year and are in public service, the former as Major and Judge Advocate, the latter as counsel to the President's Mediation Commission. Also at the opening of the School Professor Hill was in France in the service of the Red Cross. He has since been appointed Major and Judge Advocate and has leave of absence for the year. Others of the teaching force are engaged in public work of one sort or another but without relinquishing their teaching. The diminished registration has made it possible to teach each course in a single section, and thus to present the entire normal curriculum with unimpaired efficiency.

Obviously the present is no time to urge large constructive programs. For a season our care and our duty must be to conserve. We must strive to hold fast the results of a century of effort in a time of pressure to relax standards and of impaired material means to maintain them. Moreover, after the war there is likely to be a tendency to revert to the régime of free admission to the profession which prevailed a generation ago, or at least to let down the requirements as to general preliminary education and professional training. Not the least task of the Law School must be to stand

firmly for all that has been achieved for a better trained legal profession during the past twenty-five years.

One important gift is to be recorded. On June 18th James Byrne, Esq., of New York, gave \$150,000 "for the purpose of founding a professorship of Administrative Law in the Harvard Law School." The details are yet to be settled, but Mr. Byrne generously arranged that in the meantime the School should be assured the income of the gift from September 1st for general purposes. At a time when revenues are greatly diminished without the possibility of reducing expenses correspondingly, this gift is doubly welcome.

According to custom, two tables are appended. The first table shows the progress of the School since 1870, in the number of students registered each year, the number and percentage of college graduates, the number of graduates of Harvard College, the number of graduates of other colleges and of non-graduates, the number of colleges represented by their graduates, and the number of students upon whom degrees have been conferred at Commencement. The second table shows the courses of study and instruction during the year, the number of weekly exercises in each course, and the number of students who offered themselves for examination therein.

ROSCOE POUND, *Dean*.

THE FACULTY OF MEDICINE

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — As Dean of the Faculty of Medicine, I have the honor to present the following report for the year 1916-17.

The energies of the Harvard Medical School have in the past year been actively enlisted in aid of the thorough training of medical students and young medical officers for service in the National Army and Navy.

It will be remembered that in the early days of the European War, the Surgical Department of the Harvard Medical School took charge for several months of a service in the American Ambulance Hospital at Neuilly, and that shortly after this, at the request of the British Government, a Harvard medical unit was assigned to the charge of a large base hospital in France under the direction of the British Government. This work has been continued and will be maintained during the war — a valued allied service — started before an alliance with our Government.

In addition three base hospitals were organized with the coöperation of the Surgical Department of the Harvard Medical School at the request of the American Red Cross Association (before the declaration of war), to be made ready for the anticipated war service. Two of these are already at work in France, and in one a lamented death and severe injuries are to be recorded as early American sacrifices of the war. Among them was Lieutenant William T. Fitzsimmons, who, though not a Harvard graduate, joined the Harvard Brigham Hospital Unit under the inspiring leadership of Major (Professor) Harvey Cushing. Among another group of twenty physicians, engaged at the request of the Red Cross Association, was a graduate of the Harvard Medical School, Lieutenant George P. Howe, to whom came a distinguished honor. He is the first American officer to die in action in the great war. He is reported to have been killed in the performance of his duty in the trenches of the British forces. He was a graduate of Harvard College in the Class of 1900, and of the Harvard Medical School in 1904, and was later a surgical interne at the Boston City Hospital, and afterwards distinguished himself in archaeological research, as well as in practice.

Early in the autumn of 1916 the need of training military and naval medical officers was apparent. Lectures were arranged for the several classes on subjects relating to army and navy medical services. Major W. P. Chamberlain of the United States Army and Surgeon G. F. Freeman of the United States Navy were detailed by the National Government to coöperate with the teaching force of the School. Lectures were also given by Surgeon-General F. P. Williams of the State of Massachusetts and others qualified for suitable instruction. In this way a number of the graduating class were fitted for admission to the Government Naval School and naval service. At the request of the National Government advanced instruction was given this summer to a detachment of the United States School of Naval Medical Officers under the direction of Lieutenant-Commander R. B. Greenough of the teaching force of the Harvard Medical School. This detachment received advanced laboratory and clinical training.

Detachments of junior army medical officers have been assigned to the Harvard Medical School for special instruction in orthopedic surgery, which was given by Professor R. W. Lovett and his associates of the Orthopedic Department. This work was conducted during the summer and will continue during the coming year.

Early in the spring the Harvard Medical School planned to give during four summer months to the senior class the regular courses of instruction ordinarily beginning at the end of September. This was arranged without difficulty, as the instruction for the final year is largely given as hospital instruction and as the hospitals are necessarily not closed in the summer and the teaching service is under the charge of members of the teaching force of the School who are actively engaged during the summer months. The plan proved in every way to be satisfactory, the students having an opportunity for standardized instruction instead of uncredited summer work. The arrangement was the more easily made from the fact that summer courses of excellent character have been for several years given at the Harvard Medical School under the direction of the Graduate School of Medicine. The plan was facilitated by a generous anonymous gift of \$6000 which was applied to aid students who by devoting themselves to summer study were prevented from engaging in anticipated money-earning occupations. By this the whole class were able to enjoy the advantage of summer instruction with the exception of six whose engagements previously made could not be cancelled.

It was also necessary to provide for the instruction of those medical students who for financial and other reasons were unable to take up summer work and were obliged to join the School in the autumn as in the past. As the teaching force is ample and the hospital opportunities adequate, no difficulty was found in providing satisfactorily also for the group of students who had planned for the usual course beginning in the autumn. This involved an added tax upon the time and effort of the teaching force of the School, which was cheerfully and loyally met and for which the thanks of the Medical School are cordially extended.

It was not found feasible to arrange credit-bearing summer courses for the members of the second and third-year classes, thereby condensing and shortening the regular course. The laws regulating the practice of medicine demanded that medical school instruction should be work extending throughout four years, but arrangements have been made by which course and honor credits and recognized work can be given to students who desire to utilize summer months for standardized study. In this way, the four years of medical school work can be made more profitable and under better direction for ambitious students, than if students are left to their own unaided direction through a considerable period of time.

The recognized courses were in every way equivalent to those offered in the previously established curriculum. Not being obligatory, they are suited to the inclination of students, some of whom are forced to engage in money-making work during the summer months and others need mental relaxation in laboratory research, while those who desire to take up a hospital internship can save time in this needed preparation.

A threatened shortage of medical students for civil hospital service, which seemed to impend owing to the regulations of the draft law, was averted by the wise decision of the Provost Marshal. Permission was given to students to join the Medical Reserve Corps, and, by subjecting themselves to the order of the Surgeon General, to continue their medical studies.

For a time it was thought that a need existed for women physicians. This brought the subject of providing education for female students prominently before the Administrative Board of the School. Arrangements were made for the enrolment of female medical students under the direction of Radcliffe College, the teaching to be conducted by the regular teaching force of the Harvard Medical School. A number of applications were received, but

as the announcement of the proposed plan was made late in the summer, the applicants, with a few exceptions, who were qualified, were already enrolled at other medical schools. It was not, therefore, considered proper to consider these applications. Although the number of applications was not enough to make a recognized war exigency evident, there can be no doubt that if the war continues there will be an urgent need of properly trained female physicians. Evidence of this is found in the experience of England, France, and Germany. The high standard of pre-medical scientific preparation and the arduous struggle demanded in modern medical practice at present seem to limit the number of suitable female applicants for medical study. There is no doubt, however, that a woman's claim for the best opportunity to study medicine is a just one and that no hindrance should be given to all properly qualified persons to enter upon such studies. Many women are particularly well qualified for medical laboratory and research work.

It was feared that the disturbance of the war would cause a diminished enrolment at the Medical School. This fortunately did not take place. Even with the reduction of applicants caused by the draft of young men of military age the entering class was nearly as large as in the previous year. The requirements for admission were not altered during the year; eighty per cent of the entering class were holders of A.B. or S.B. degrees. As the class which graduated in June was comparatively small, and the remaining three classes were large, the total registration for the year 1917-18 was greater than at any time since the present high requirements for admission were in force.

Honorable mention should be made of the names of the members of the School, who, at personal sacrifice of their time, comfort, and inclination for lives of peace and professional advancement, have devoted their skill to the national service. Professors Strong, W. T. Porter, Cushing, Cannon, and Assistant Professors Crockett, Richard Cabot, Hugh Cabot, and Peabody and a large number of younger men have left the country for work in France and other countries abroad.

Professor W. T. Porter has again during the summer devoted his energy to remarkable investigations on surgical shock. His observations were conducted by the courtesy of the French Government at the request of the Rockefeller Foundation. They were carried on in the front line and under the heaviest shell fire in the history of warfare.

It is with the deepest regret that I have to record the lamentable death of Dr. Walter J. Dodd on December 18, 1916. He died a martyr to science. The patient heroism with which he continued his work under grievous difficulties is an example of courage and devotion never to be forgotten.

Dr. F. W. Palfrey was granted leave of absence for the year 1916-17 to enable him to join British Military Hospital No. 22 in charge of Dr. Hugh Cabot. Upon his return to this country he accepted a commission in the Medical Reserve Corps, which necessitated his resignation as Secretary of the Faculty of Medicine. For three years and nine months he had fulfilled the duties of this office with painstaking devotion and at great personal sacrifice. I welcome this opportunity to acknowledge our debt of gratitude to him.

Dr. Henry Lyman kindly assumed the duties of Secretary until he in turn was called to active service in France with Base Hospital No. 5. Dr. McIver Woody thereupon became Acting Secretary and has now been appointed Secretary for the coming year.

E. H. BRADFORD.

THE MEDICAL SCHOOL

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — As Dean of the Medical School I have the honor of presenting my report for the academic year 1916–17.

Although the work of the Harvard Medical School has been made more difficult by the call upon the teaching and research forces of the School from the National Government needing assistance in these times of war, the activities of the School have been carried on as usual. Nor has there been any impairment in the quality of research, although necessarily the volume of research has been somewhat curtailed.

It is impossible from lack of space to present in detail a statement of all the important work conducted by the different departments. A condensed summary of some activities of particular interest is here presented.

Medicine. — The Department of Medicine has done much good work. During the year a number of investigations have been conducted either in the laboratory of the Department in the Medical School or at some one of the several hospitals in which services are directed by members of the Department. At the Massachusetts General Hospital Dr. Means and Dr. Aub have continued extensive studies of basal metabolism in exophthalmic goitre, of blood sugar in this disease and of the specific dynamic action of protein in various diseases. Dr. Paul White has continued observations on pulses alternans, on the influence of digitalis on the electrocardiogram in normal subjects, and on a number of other circulatory problems. Dr. Wade Wright working with Professor Edsall has made surveys of occupational diseases as seen in a general clinic and has made noteworthy studies of lead poisoning. Dr. Rackemann has devoted his entire time to the study of asthma and other conditions of hyper-sensitivity. Dr. George Minot, in conjunction with Dr. Roger I. Lee, has studied especially the hemorrhagic diseases and pernicious anaemia, and with Dr. Sellards he has made extensive studies on the influence of haemoglobin injections. Other members of the Department working at the Massachusetts General Hospital have been active in investigation.

At the New England Deaconess and Corey Hill Hospitals and in the Carnegie Nutrition Laboratory, Assistant Professor Joslin

in conjunction with Professor Benedict has continued investigation of a new respiration chamber and has been collecting data accumulated in the past five years' work for a monograph on diabetes. During the past year most of his experiments have concerned themselves with the utilization of carbohydrate in diabetes and particular study has been given to levulose. With Assistant Professor Bloor and Dr. Horace Gray, Assistant Professor Joslin has also investigated the blood lipoids in diabetes. Dr. Richard Ohler under the supervision of Assistant Professor Joslin has investigated renal function in diabetic patients. Assistant Professor Joslin has published a new edition of his book on the treatment of diabetes mellitus and has given practical instruction in the management of patients to numerous physicians and nurses who have attended his morning clinics in diabetes.

In the laboratory at the Medical School Dr. Pratt and Dr. McClure have completed and published a study of the diastase content of the urine and feces in health and disease. They have published an investigation of the absorption of fat in partially and in completely depancreatized dogs and have continued their studies on uric acid metabolism in gout. Dr. Pratt, assisted by Dr. Morrison and Mr. Mabon, has been engaged in the study of the activity of American digitalis and the relation of temperature to the toxic action of digitalis in frogs.

At the Peter Bent Brigham Hospital studies of nephritis and cardiac disease have been continued and a number of investigations on this general problem have been published by Professor Christian, Assistant Professor Peabody, Dr. Frothingham and Dr. O'Hare. Dr. Chandler Walker has published an extensive series of papers dealing with protein sensitization in bronchial asthma and with the treatment of bronchial asthma. These studies on bronchial asthma have been conducted by Dr. Walker under a special gift to the Peter Bent Brigham Hospital by Mr. Charles F. Choate, Jr. Dr. Haller published several studies on various phases of the problem of the management of syphilitic cases, and other assistants at the Hospital have been engaged in various investigations and have published a number of papers based on them.

Diseases of the Nervous System. — The Department of Diseases of the Nervous System has many activities of interest to report. A valuable adjunct to the teaching this year of Neurology has been instruction given by Dr. George Clymer at the Robert Bent Brigham Hospital in sections. This is of particular value since it enables students to observe and study cases of advanced nervous

disorder and affords a valuable supplement to instruction in the more acute conditions observed at an ambulatory clinic. Dr. James B. Ayer has published articles on "Intraspinal Epidural Abscess" and "The Rational Use of Lumbar Puncture." Professor E. W. Taylor delivered the president's address before the American Neurological Association on "A Plea for Wider Generalization," and has revised his previous articles on Diseases of the Spinal Cord, Tabes Dorsalis, Poliomyelitis.

The subdepartments of Neuropathology and Psychiatry have been more intimately united during the past year than before on account of the departure of Assistant Professor Adler to become Director of the Juvenile Psychopathic Institute of Chicago and Criminologist to the State of Illinois. Professor Southard gave the lectures in Psychiatry, offering a simplified classification of mental diseases and a sequence for the consideration of the main disease groups — eleven in number. This work was presented to the American Neurological Association at its spring meeting and is to be shortly published.

A monograph of considerable size on the subject of Feeble-mindedness is in press in the *Proceedings of the American Academy of Arts and Sciences*, involving an intensive study of ten cases ranging from idiocy to feeble-mindedness of high grade.

A case book on "Neurosyphilis; Modern Systematic Diagnosis and Treatment," involving a selection of autopsied and therapeutic material and giving results of recent Psychopathic Hospital work in general paresis and allied conditions, is also in press.

The material has been collected for a monograph on the Anatomy of Mental Disease, involving the last ten years of work under the Bullard Professorship. The results of some valuable research investigations were published by Dr. A. E. Taft and others by Dr. L. G. Lowrey, twelve of whose articles appeared in medical journals during the year. Dr. H. C. Solomon also published five articles.

Pharmacology. — In the Department of Pharmacology the increasing number of students and the limited laboratory space available has made it necessary to divide the class into four sections; this has considerably increased the work of instruction. Dr. Hale has rewritten and enlarged the laboratory manual and brought it into conformity with the new Pharmacopoeia; he has also devised several new very useful pieces of apparatus.

Research work has been continued along the lines indicated in previous reports. Dr. Hunt has almost completed a paper on vasodilator reactions, based upon a pharmacological study of a series

of new compounds of great activity; the work has led to the discovery of a new vaso-dilator mechanism hitherto unknown or only vaguely known. Dr. Hale has, in addition to other lines of investigation, continued work on the physiological standardization of drugs, especially of digitalis; in this he has coöperated with certain hospitals and physicians and those endeavoring to develop an American supply of digitalis. The work has shown that the American grown digitalis is, as a rule, superior to the imported drug.

Pediatrics. — The publications of the members of the Department of Pediatrics have been numerous and of much interest. Dr. C. H. Dunn issued in the course of the year Vol. I of his book, "Pediatrics," and the third edition appeared of Dr. L. W. Hill's book on "Starvation Treatment of Diabetes." The papers published by Professor J. L. Morse include: "Lobar Pneumonia in Infancy and Childhood," "Whooping Cough: The Measures to be taken for its Control and Prevention," "Edebohl's Operation in Nephritis in Children"; by Drs. Morse and Hassman: "The Effect of Cold Air on the Blood Pressure in Pneumonia in Childhood"; by Dr. Dunn: "Intravenous Glucose Injections in Infancy"; by Dr. F. B. Talbot: "Idiosyncrasy to Cow's Milk: Its Relation to Anaphylaxis," "Physiology of the New-Born Infant," "Twenty-four-hour Metabolism of Two Normal Infants with Special Reference to the Total Energy Requirements of Infants," "Asthma in Children," III; by Drs. Talbot and Gamble: "The Protein Metabolism of an Infant"; by Drs. Bowditch and Bosworth: "The Preparation of a Synthetic Milk in Studying Infant Metabolism," "Chemical Changes produced by Addition of Lime Water to Milk," "The Mineral Constituents (Ash) of Milk"; by Dr. Maynard Ladd: "The Relation of Health Insurance to Pediatrics"; by Dr. P. H. Sylvester: "The Treatment of Congenital Syphilis"; by Dr. J. I. Grover: "A Study of Diarrheas in Boston for 1915," "The Use of Cream and Precipitated Casein in Indigestion with Fermentation"; by Dr. W. W. Howell: "Treatment of Tuberculosis in Infancy," "Diagnosis of Pyloric Stenosis and Pyloric Spasm by the Duodenal Catheter"; by Dr. R. M. Smith: "Pyelitis of Infancy. I. Mode of Infection."

In addition to these publications, Dr. Talbot has continued his work on Anaphylaxis in relation to Asthma and Eczema and allied conditions, as well as his work at the Nutrition Laboratory of the Carnegie Institution of Washington, with Dr. Benedict, on the Metabolism of Infancy. They have studied various phases of the

metabolism of growing infants, studying the growth of the same infant from month to month. They have also obtained sufficient figures to give the curve of the basal metabolism of infants during the first eighteen to twenty-four months of life.

Dr. Bowditch is still carrying on his important work, in connection with Mr. Bosworth, the chemist, in relation to the metabolism of the salts in infancy. This work is supported by a fund given by the Floating Hospital.

Dr. Howard has been preparing to do research work on the blood of infants and children and will undertake his work during the coming year.

Dr. Sylvester has been carrying on his work in the treatment of congenital syphilis and is at present investigating the auto serum treatment of chorea.

Dr. Grover has made some very remarkable models of the infants' stools, which he showed at the meeting of the Association of American Teachers of Diseases of Children, last June. They created a great deal of interest, and will probably soon be made commercially for the various medical schools of the country. He has also been making a special study of the treatment of enuresis and of the globules of fat in milk and cream.

Dr. Howell has been studying especial conditions simulating pyloric stenosis in infancy and spasmophilia.

Dr. Hill has been working throughout the year on an investigation of the eliminative functions in nephritis of childhood.

Surgery. — The Department has been carried on very much as in the previous year, with the exception, of course, that the personnel of those giving the instruction has been considerably changed, owing to the war. This also has interfered somewhat with the completion of research work, and publication of papers. In spite of this, there have been sixty-nine publications by members of the Department.

At the Massachusetts General Hospital, a study of the pathological histology of Graves disease, and of cancer or ulcer of the stomach, has been made by Dr. Harry F. Hartwell, which will not be published until a larger number of cases have been reached. Instruction in the second year in clinics has continued, as before, under the charge of Professor C. A. Porter and associates. The course in surgical data was increased in scope to cover surgical appliances and the technique of the after-care of patients in the wards, and has proved satisfactory to the students. The section work in surgery in the Out-patient Department has not been quite

satisfactory. It is hoped to meet this by the appointment, this year, of more assistants in Surgery, who will have a definite responsibility to the School.

As in previous years, a close parallelism was maintained between the didactic lectures at the Medical School upon a given subject and the three associate hospitals, where, during the same week, clinics were given by Professors Cushing, Nichols and Porter, illustrative of the subject of the lecture. This seems a very satisfactory method of bringing to bear, in one week, the illustrative material at the three hospitals, and coördinating it with the School. The fourth-year students were placed in charge of Dr. Gilbert Horrax, Alumni Assistant in Surgery, with whom the other Resident, Dr. George B. Packard, Jr., was associate.

At the Massachusetts General Hospital, in addition, there has been given instruction, during the year, to naval medical men, at the request of Lieutenant Commander Robert B. Greenough. In addition, the old amphitheatre, from which the Zander apparatus has been removed, will be made over into a ward of fifty beds for patients from the Naval Hospital at Chelsea, under charge of Dr. Greenough. This will prove a most interesting experiment to see how branches of the Army and Navy Service may be carried on in existing civil hospitals. This arrangement at the Massachusetts General Hospital is a temporary one, awaiting the enlargement of the hospital at Chelsea.

A list of the men in the Department on service is as follows:

| | |
|---------------------|-------------------|
| Harvey Cushing | Horace Binney |
| Hugh Cabot | Percy Brown |
| Robert B. Greenough | John B. Hartwell |
| James S. Stone | Walter C. Howe |
| Robert B. Osgood | Richard H. Miller |
| Farrar Cobb | Beth Vincent |
| William J. Brickley | William S. McCann |

In Surgical Pathology, in addition to the regular instruction, a special course of lectures was given by Dr. Nichols to army surgeons.

There was special laboratory research, by Dr. Sheehan on Uterine Surgery; by Dr. Morrison on Blood Transfusion. Dr. Forbes's work on Internal Radium Burns was interrupted by his departure with Unit No. 5.

The teaching collection supplied pictures, lantern slides and gross specimens for lectures and classes. An article on "Medical Teaching" and an illustrated article describing the teaching col-

lection were accepted for publication by the *International Association of Medical Museums Bulletin*.

Dr. W. J. Dodd, who had for many years been in charge of the instruction in Roentgenology, died on December 18, 1916. Since then the work has been carried on by Dr. George W. Holmes at the Massachusetts General Hospital.

In the laboratory of surgical research the work has been much interfered with by interruptions occasioned by the War. Dr. W. S. McCann, who had charge of the laboratory from November 1, 1916, to May 1, 1917, was carrying out studies in calcium and magnesium metabolism, associated with investigations of the gastric secretion in dogs, when his work was interrupted by his resignation to accept active military service. Dr. Wislocki, who assumed charge of the laboratory June 1st, had been investigating the drainage of foetal membranes and studying the ductless glands by vital staining methods, when his resignation was necessitated on September 1, 1917, for the same reason. Dr. John Homans made investigations on gastric hunger contractions and the effect on them of classical operative procedures in dogs. Dr. W. C. Quinby is carrying on researches in the physiology of ureteral peristalsis and, in conjunction with Dr. J. P. O'Hare, has studied the production of experimental chronic nephritis in animals. In this work they were assisted by Mr. Hopkins and Mr. Atwater of the fourth year. Dr. V. J. O'Connor has investigated various phases of diseases of the gall bladder. Dr. S. C. Harvey at the time of his resignation was working on new methods of intestinal anastomosis by fibrin cones. Dr. E. W. Goodpasture has continued investigations in the relation between senescence and cell over-growth. Dr. P. E. Truesdale has carried on studies on the pylorus in dogs and the effect of various forms of gastro-enterostomy and pyloric closure on the physiology of the stomach. Most of the investigations above mentioned have been interrupted by resignations or other exigencies occasioned by the War, so that the amount of completed work is much less than usual.

The publications of this Department are as follows: By Dr. J. D. Barney: "An Operation for the Relief of Epispadias in the Male," "The Influence of the Venous Collateral Circulation of the Kidney on Hydronephrosis"; by Dr. J. B. Blake: "Infection of Simple Closed Fractures," "Progress in Surgery," numerous reviews of medical books, which were published in the *Boston Medical and Surgical Journal*, also many brief communications dealing with the Medical Officers' Reserve Corps and the War; by Dr. P. Brown:

"A Broader Relationship between Roentgenology and the Various Theories of Systematic Disorder from Localized Sources"; by Dr. H. Cabot and Dr. E. G. Crabtree: "The Etiology and Pathology of Non-tuberculosis Renal Infections," "The Mechanism of the Protection Afforded by the Drainage of Prostatics as a Preliminary to Operation"; by Dr. D. Cheever: "Gastrojejunostomy under Local Anaesthesia in the Two-stage Operation in Gastric Surgery"; by Dr. R. C. Cochrane: "The Technic of Abdominal Caesarean Section, and a Report of Sixty Cases"; by Dr. F. J. Cotton: "A Consideration of the Workingmen's Accident and Sickness Insurance in their Relation to the Medical Profession," "Os Calcis Fracture, Some Further Data on Artificial Impaction of the Hip"; by Dr. E. G. Crabtree and Dr. Hugh Cabot: "Colon Bacillus Pyelonephritis: Its Nature and Possible Prevention"; by Dr. Harvey Cushing: "Anosmia and Sellar Distension as Misleading Signs in the Localization of a Cerebral Tumor," "On Convulsive Spasm of the Face Produced by Cerebellopontine Tumors," "Yale in Medicine"; by Dr. R. B. Greenough and Dr. William Duane: "Report of Results of Radium Treatment at the Collis P. Huntington Memorial Hospital by the Cancer Commission of Harvard University"; by Dr. J. B. Hartwell: "An Analysis of 133 Fractures of the Spine Treated at the Massachusetts General Hospital"; by Dr. G. W. Holmes and Dr. P. D. White: "Auricular Flutter Detected by the Fluoroscope"; by Dr. John Homans: "A Study of the Symptoms and Treatment of Congenital Transduodenal Bands," "The Etiology and Treatment of Varicose Ulcer of the Leg"; by Dr. J. C. Hubbard and Dr. A. W. George: "Osteosarcoma of the Head of the Femur"; by Dr. D. F. Jones: "Relation of the Deep Cul-de-sac to Prolapse of the Rectum and Uterus, and to Rectocele"; by Dr. H. A. Lothrop: "Frontal Sinus Suppuration"; by Dr. F. B. Lund and Dr. H. Morrison: "A Case of Double Empyema Successfully Operated upon, with Remarks on Localization"; by Dr. F. B. Lund: "The Indications for Cholecystectomy," "The Parham and Martin Band in Oblique Fractures, with Remarks upon Mechanical Appliances versus Bone Grafts," "Tumors of the Carotid Body"; by Dr. C. A. Porter: "Surgery of the Peripheral Nerves," "Surgery of the Thyroid Gland"; by Dr. W. C. Quinby with Dr. M. C. Winternitz: "Experimental Nephropathy in the Dog: Lesions Produced by Injection of the Bacillus Bronchisepticus into the Renal Artery"; by Dr. W. C. Quinby: "The Action of Diuretics on the Denervated Kidney," "Pyelitis in Children"; by Dr. E. P. Richardson: "Acute and Subacute Per-

forations of the Stomach and Duodenum at the Massachusetts General Hospital," "Jejunal Ulcer; A Report of two Cases Treated by Resection and End-to-End Anastomosis of the Jejunum"; by Dr. C. L. Scudder and Dr. S. C. Harvey: "Is the Employment of the Actual Cautery in the Treatment of Chronic Ulcer of the Stomach a Safe Procedure?"; by Dr. C. C. Simmons: "A Report of a Service with the First Harvard Surgical Unit Serving at a British Base Hospital, with the End Results of the Cases One Year Later," "Letters to a Harvard Surgeon," "The Follow-up System," "The Treatment of Osteomyelitis"; by Dr. E. B. Towne with Dr. E. C. Rosenow: "Bacteriological Observations in Experimental Poliomyelitis of Monkeys"; by Dr. E. B. Towne with Dr. E. C. Rosenow and Dr. G. W. Wheeler: "Observations on Immunity of Monkeys to Experimental Poliomyelitis," "The Etiology of Epidemic Poliomyelitis"; by Dr. B. Vincent: "Blood Transfusion with Paraffincoated Needles and Tubes"; by Dr. B. Vincent with Dr. C. W. McClure and Dr. J. H. Pratt: "The Absorption of Fat in Partially and in Completely Depancreatized Dogs"; by Dr. P. Thorndike: "Report on Recent Progress in Genito-urinary Surgery"; by Dr. G. B. Wislocki: "A New Method for the Study of the Development of the Lymphatic System," "The Action of Vital Dyes in Teleosts," "The Staining of Amphibian Larvae with Benzidine Dyes, with Especial Reference to the Behavior of the Lymphatic Endothelium."

Comparative Physiology. — Professor W. T. Porter with Dr. L. H. Newburgh of the Department of Comparative Physiology published an experiment showing the rôle of the vagus nerves in pneumonia. When these nerves are cocainized in the height of the disease, the violent respiration at once becomes normal. Professor Porter, aided by a grant from the Rockefeller Institute for Medical Research, studied traumatic shock in France and Belgium from June to November, 1916, and from April to September, 1917. The intervening months were spent in experiments on this same subject in the Laboratory of Comparative Physiology. Two papers have been published in the *Comptes rendus of the Academy of Sciences* in Paris and four papers in the *Boston Medical and Surgical Journal*. The principal results are as follows:

1. The demonstration that the systematic organization of a treatment against shock, as prescribed in Professor Porter's report adopted at La Panne, September 11, 1916, will save two-thirds of the cases of shock.

2. The most violent barrage fire does not predispose to shock.

3. The experimental proof that fat embolism is the principal cause of shock, confirmed by the examination of 2000 freshly wounded men.

4. The discovery that increasing the respiration by breathing carbon dioxide mixed with air raises the blood pressure in the wounded and thus is a valuable remedy against shock.

Physiology. — The Department has carried on the usual amount of teaching, having a dental class from November 1st to February 1st, and the first-year medical class from February to June.

The members of the Department were divided for teaching purposes as follows:

Dental Physiology: Dr. Stiles, Dr. Kreutzmann, Mr. Cattell and Mr. Bagusin.

Medical Physiology: Dr. Cannon, Dr. Forbes, Dr. Drinker, Mr. Lutz, Dr. Redfield, Mr. Pierce.

Of this number Mr. Lutz, Mr. Pierce and Mr. Cattell were graduate students in physiology working for the Ph.D. degree. The major portion of their time was given to work in the Department, both teaching and research. Mr. Pierce acted as Dr. Cannon's personal assistant in work upon the secretion of the adrenals under different physiological conditions, an amplification and verification of former work in the same field and first step in the application of new methods for testing adrenal activity. This work has been published as a preliminary report in *Science*. Had not the war carried Dr. Cannon's attention into other fields there is no doubt that several papers would have come out upon these investigations. It was impossible, however, to assemble the data properly before Dr. Cannon left for France. During the six weeks prior to his departure his research was altogether upon surgical shock and results were obtained which he is now applying in France, having been sent to a Casualty Clearing Station for this purpose. It is unfortunately impossible to make a statement as to his success in this work, which, however, must be understood to base itself directly upon experiments accomplished in the Harvard Laboratory.

The Department has had fourteen investigators actively employed throughout most of the year. Had the war not intervened, there is no doubt that this would have resulted in a research output of great value by the Department, and this output will of course be realized eventually.

A list of the publications from the Department for the current year is as follows: By Dr. Cannon: The Shattuck Lecture, "The Physiological Factors Concerned in Surgical Shock," "Results

of Recent Studies on the Ductless Glands," "A Note on the Effect of Asphyxia and Afferent Stimulation on Adrenal Secretion"; by Dr. Cannon and Mr. Gruber: "Oscillatory Variations in the Contractions of Rhythmically Stimulated Muscles"; by Dr. C. K. Drinker, Dr. K. R. Drinker and Dr. Kreutzmann: 1, "Influence of Manoeuvres Designed to Increase the Rate of Blood Flow through the Blood Forming Organs, Factors Concerned in the Appearance of Nucleated Red Corpuscles in the Peripheral Blood," 2, "The Normoblast Crisis, Time of Occurrence, Duration and Significance"; by Dr. Forbes and Mr. W. C. Rappleye: "The Effect of Temperature Changes on the Human Electromyogram"; by Dr. Levy: "Studies on the Conditions of Activity in Endocrin Glands"; by Dr. Stiles: "Human Physiology"; by Dr. L. T. Wright: "The Effect of Alcohol on the Rate of Discharge from the Stomach."

Biological Chemistry. — In the Department of Biological Chemistry, because of the high cost and low grade of chemicals obtained, considerable time had to be devoted to checking and revising the experimental part of the course. Some of the work thus called for developed into profitable research. One of these researches deals with analytical errors due to the use of impure picric acid; another has to do with the determination of chlorides in blood without the use of the standard German animal charcoal; while yet another describes a less costly method than the current one for the determination of sugar.

Among the articles published by the Department are: by Dr. O. Folin and Dr. E. A. Doisy: "Impure Picric Acid as a Source of Error in Creatine and Creatinine Determinations"; by Dr. O. Folin and Dr. R. D. Bell: "Applications of a New Reagent for the Separation of Ammonia"; by Dr. O. Folin: "Recent Advances in Biological Chemistry: Their Application to Clinical and Experimental Medicine"; by Dr. W. R. Bloor: "The Lipoids ('Fat') of the Blood in Diabetes," "The Separate Determination of Cholesterol and Cholesterol Esters in Small Amounts of Blood," "Cholesterol and Cholesterol Esters in Human Blood," "The Determination of Cholesterol in Blood," "The Blood Lipoids in Anaemia," "The Blood Lipoids in Nephritis"; by Dr. W. Denis: "The Influence of the Protein Intake on the Excretion of Creatine in Man"; by Dr. G. L. Foster: "A Modification of the McLean-van Slyke Method for the Determination of Chlorides in Blood"; by Dr. H. Lyman: "The Calcium Content of Human Blood," "A Rapid Method for the Determination of Calcium in Blood and Milk."

Pathology. — During the past year Dr. S. B. Wolbach was appointed chairman of the Department of Pathology and undertook the administrative work of the Department.

Dr. W. T. Councilman resigned as Pathologist to the Peter Bent Brigham Hospital, January 1, 1917, and was succeeded by Dr. S. B. Wolbach.

Dr. W. H. Cook, Instructor in Pathology, was made Pathologist to the Long Island Hospital in July, 1917.

Dr. E. W. Goodpasture, Instructor in Pathology, has resigned as Resident Pathologist to the Peter Bent Brigham Hospital and has become Pathologist to the Huntington Memorial Hospital.

Dr. L. U. Gardner, Instructor in Pathology, has resigned and is in active service in the Medical Reserve Corps.

The stress of war conditions is already being felt in the Department and particularly in the hospital laboratories under the direction of members of the Department, as it is impossible to fill vacancies owing to the withdrawal of so many men into the Medical Reserve Service.

Dr. Councilman left early in November to accompany the expedition organized by Dr. Hamilton Rice for exploration in Brazil. The main object of the expedition was the exploration of the region of the Casiquiera Canal and the study of the diseases of the country, particularly malaria. It was desired to ascertain the extent of this and the means of transmission in a country so lacking in population. Next to malaria the most important disease in the country is the tropical ulcer due to one of the group of organisms known as *Leishmania*, and it is hoped to get new information regarding the extent and transmission of this.

Among the more important activities of the Department, the following may be mentioned. Drs. Mallory and Medlar have spent much of their time during the past year in the study of measles, paying particular attention to the secondary lesions of the skin in an endeavor to find the causal agent. The results have been negative except for certain minute spherical bodies which occur in small numbers in the endothelial cells lining the capillaries in the skin lesions.

Dr. F. S. McJunkin, working at the Boston City Hospital Laboratory, has shown that the two to four per cent of the much disputed so-called transitional cells of the blood will incorporate carbon in vitro if placed in a solution of sodium citrate in the incubator for an hour, thus favoring the view that they are endothelial leucocytes derived from endothelial cells.

Dr. F. Parker, Jr., working at the Boston City Hospital Laboratory, has studied the pancreas in a series of a hundred acute infectious diseases and shown that toxic necrosis and regeneration of the pancreatic gland cells is about as active as that of liver and adrenal gland cells under similar conditions, but is more easily overlooked. Mitotic figures are often very numerous, both in the gland and in the islet cells showing rapid regeneration.

Drs. Bunker and Norbury have prepared for publication a report on a well marked case of hemochromatosis.

Dr. J. H. Wright is developing a method for demonstrating the micro-organism of syphilis in sections of lesions, which promises to be better than any method yet discovered. The work is not yet completed.

In association with Dr. George H. Minot a series of experiments were made on the "viscous metamorphosis" of the blood platelets in which these elements were separated from other corpuscular elements of the blood. It was determined that this peculiar phenomenon is due to an action of the substance closely allied to globulin and that calcium is apparently necessary for its production.

Dr. S. B. Wolbach has continued his studies on Rocky Mountain Spotted Fever. He spent the months of April and May in the Bitter-root Valley, Montana, and has completely confirmed the results of experimental work done during 1916 on animals.

With Dr. W. R. Sisson and Dr. F. C. Meier a study of a new pathological sporotrichum has been completed and published.

Dr. E. W. Goodpasture, while Resident Pathologist at the Peter Bent Brigham Hospital, completed studies on senescence intoxication of pancreatic origin, and crystalline hyaline. Completed work unpublished includes "An Anatomical Study of Senescence in Dogs with Especial Reference to Tumors"; "Observations on the Mitochondrial Substance of Certain Tumors."

Bacteriology. — Instruction in the Department of Bacteriology has been given in the regular course to the students of the Medical School, of the Dental School, of the School for Health Officers, and the School of Tropical Medicine.

During the spring, Dr. Ernst conducted a voluntary course of training in the differentiation and diagnosis of bacilli of the typhoid and para-typhoid group; this, at a suggestion coming from the Surgeon General's office. In connection with this, and by reason of the shortage of aniline dyes, the Chemical Department of the University became interested in an attempt to manufacture certain colors needed in this differentiation procedure. The testing out of

the value of their product was carefully and painstakingly carried on by Messrs. Viko and Soletsky, of the first-year class; these gentlemen had had good bacteriological training, and gave many hours to the work.

In association with Dr. Stanton, a number of attempts were made to manufacture bacterial filters, the need for which is great in this and other similar laboratories, and the supply of which has been cut off by the War.

In association with Dr. Folin, Dr. Ernst carried out a series of tests on the nitric acid precipitation of colloids in the serum of syphilitic patients. This procedure was suggested as a substitute for the Wassermann test, but, although highly recommended, has not turned out satisfactorily.

Dr. Ernst has given much time through the spring to forming an alliance of the laboratories of this region, acting as Chairman of the Committee on Laboratories of the Auxiliary Council of National Defense.

During June, a course was conducted for thirty-seven Naval Reserve Medical Officers which was apparently very successful, and to the success of which all the instructors in the Department contributed.

Dr. Ernst has recently accepted a Commission as Major in the Medical Officers' Reserve Corps with a special detail. This action makes it possible that he may be called away for emergency duty during the fall and winter.

Two appointments in the Department are of especial interest: that of Dr. Cleaveland Floyd, to be "Silas Arnold Houghton" Assistant Professor on a special foundation — the first instance, I believe, of a named Assistant Professorship; the recent appointment of Dr. W. T. Bovie to be an Instructor in this Department, which demonstrates the wide scope of subjects treated in this Department.

Dr. Lesley H. Spooner has done an extremely interesting piece of work in his "Studies on Renal Tuberculosis," the results of which will appear in the *Journal of Medical Research* for November, 1917.

Langdon Frothingham, D.V.M., a research student, has made a study of "The Reaction Curve of the Tubercle Bacillus with the Bovie Potentiometer." The results will appear in the November number of the *Journal of Medical Research*.

Dr. Henry Lyman used the facilities of the Laboratory in a series of experiments with heavy paraffin oil, to be used for sterilizing instruments in the place of hot water or steam. These experi-

ments were completely successful, and seem likely to make a revolution in certain surgical procedures.

Other members of the Department have actively been engaged in various research investigations. The results of these are distinctly encouraging and many are to be published in the near future.

Dermatology. — Dr. C. J. White, Professor of Dermatology, has finished his third year of investigation on the aetiology of chronic eczema which has proved of special interest. His present conclusions are as follows:

1. In infantile eczema a very large proportion of the cases can be cured and cured promptly with the aid of crude coal tar, 5 per cent in a zinc oxide paste.

2. Almost the remainder of the cases can be cured by an examination of the feces and the proper correction of the discovered type of indigestion thus revealed.

3. Of the few cases remaining uncured a large proportion of the older children reveal an idiosyncrasy toward certain specific articles of their diet as revealed by the food tests, and proper elimination of these incriminated articles usually bring about a cure.

In the use of food tests have concluded:

4. That raw products are not sufficiently specific.
5. That the commercial proteins are not reliable.
6. That privately prepared proteins seem to offer us the best methods for this work.

Dr. F. S. Burns, together with Dr. J. H. Blaisdell, the new assistant in the Department, has devoted much time to the study of the effects of radium on epithelioma and *Aerotosis senilis*.

Syphilology. — Besides the various special investigations that are being carried out by the Department of Syphilology considerable time has been devoted to instructing nurses, both by lectures and section teaching. It seemed highly desirable — with the unusual call for nurses to accompany hospital units abroad — to give them more practical instruction in syphilis.

The Perkins Institution for the Blind has continued to finance the study of congenital syphilis showing interstitial keratitis, that was begun under Dr. Post in conjunction with the Eye and Ear Infirmary; and a second report will appear at the end of this year's investigation.

The same arrangements exist with the Lying-in Hospital, giving us an opportunity to study the pregnant syphilitic women — and subsequently their offspring.

The work done in the past, by members of the staff, with various organizations and child-placing agencies, has already shown good results in the changed attitude of most of these charities toward the syphilitic needing their help.

Dr. William D. Smith is still closely following the cases showing syphilis of the viscera.

Dr. C. Morton Smith presented a paper at the Symposium on the teaching of syphilis, at the June meeting of the American Medical Association in New York.

Dr. Lloyd has been carrying out investigations on the effect of salvarsan on the kidney, as shown by urine analysis.

Orthopedic Surgery. — Perhaps the most important research of the Department of Orthopedic Surgery has been in the treatment of infantile paralysis in connection with the Harvard Infantile Paralysis Commission. Certain studies have been made as to the efficiency of the use of electricity in this disease, and a large amount of material has been accumulated, which will be available for future study. Some very valuable information has been collected by an adult patient, an engineer by profession, who was good enough to plot the curves of certain cases, showing their improvement.

Ophthalmology. — Among the more valuable publications of members of the Department of Ophthalmology are by Dr. F. H. Verhoeff: "A Case of Syphilitic Retinochoroiditis Juxtapapill-Aris, with Microscopic Examination," "Improved Capsule Forceps for Intracapsular Extractions," "A New Method of Treatment for Retinal Separation," "The Treatment of Hypopyon Keratitis"; by Dr. Derby: "Interstitial Keratitis, with Special Reference to the End Results"; by Drs. Derby and Verhoeff: "Sarcoid of the Eyelid."

Preventive Medicine and Hygiene. — In the Department of Preventive Medicine and Hygiene courses were given to the second-year medical students and elective students in the fourth year as heretofore. The course of instruction now includes (1) lectures and demonstrations, (2) laboratory work, and (3) a sanitary survey, all of which is required.

Dr. Rosenau is a member of the Harvard Infantile Paralysis Commission. Laboratory investigations on the cause and mode of transmission of the disease have been continued throughout the year with the assistance of Dr. L. D. Bristol, Mr. L. C. Havens, and Mr. E. M. Craighead. The results of these studies are now being prepared for publication.

Under a gift from the National Cannery Association, the Department is making an intensive study of food poisoning, or so-called "ptomaine" poisoning. This work was started May 1st, and between eighteen and twenty-five laboratory workers, under the direct supervision of Assistant Professor Jacques Bronfenbrenner, have been employed for this purpose. The work is done under the general supervision of the National Research Council and an Advisory Committee of experts consisting of Dr. J. J. Able, Dr. Reid Hunt, Dr. H. G. Wells, Professor L. Mendel, Dr. F. G. Novy, Dr. E. Opie, and Professor E. O. Jordan.

Dr. Rosenau was appointed a member of the Medical Advisory Committee to the War Council of the American Red Cross. This duty has taken him to Washington on a number of occasions. He is also associated with various state, local, and national associations dealing with war relief. He has furthermore, with the consent of the President and Dean, accepted a commission in the Reserve Force of the United States Navy and is now detailed to supervise the construction and equipment of a laboratory at the Naval Hospital at Chelsea.

During the summer, instruction was offered by the Department to about fifty assistant surgeons in the United States Navy.

The School for Health Officers had twenty-seven students, twelve of whom received the Certificate in Public Health. Good positions have been obtained for most of the graduates and the School has served a useful purpose. It continues to receive active coöperation not only from Harvard and the Massachusetts Institute of Technology, but from various outside sources.

Six students matriculated for the Doctor of Public Health degree. Of these, one, Dr. G. B. Foster, received the degree at last Commencement. The title of his thesis was "The Etiology of Common Colds." At present, there are four candidates working in the Department for the degree.

The following researches were carried on during the year: Dr. J. P. Bill is making a study of the dust in the air with reference to ventilation and industrial conditions. Dr. W. G. Webber is making a study of colloids and ptomaines. Dr. John Weinzierl is studying the bacteriology of canned foods, and Dr. J. Bronfenbrenner, in addition to supervising the work on "ptomaine" poisoning, is conducting researches on immunity and the toxicity of the intestinal group of bacteria.

Dr. F. B. Grinnell continued his studies upon rabies until interrupted by the War. Dr. W. G. Smillie finished his studies on the

streptococci and their relation to septic sore throat; and also on the epidemiology of dysentery. Dr. L. D. Bristol studied distemper in dogs and its relation to poliomyelitis in man. Dr. C. B. Spruit assisted in the studies upon pneumonia. Dr. G. B. Foster worked upon the cause of common colds.

Dr. Rosenau continues to have supervisory charge of the Division of Biologic Laboratories of the State Department of Health. Both the Antitoxin and Vaccine Laboratory, at Forest Hills, and the Wassermann Laboratory, at the Harvard Medical School, were used for teaching purposes for undergraduate and graduate work.

Anatomy.—The research in the Department of Anatomy may be indicated by the number of papers which were read before the Association of Anatomists at their winter meeting in New York. By Dr. A. S. Begg: "A Case of Persistent Vitelline Vessel in a Human Adult"; by Dr. E. A. Boyden: "Vestigial Gill Filaments in Chick Embryos"; by Dr. F. T. Lewis: "A Comparison of the Herzog and Strahl-Beneke Embryos"; by Dr. Lewis, in collaboration with Professor J. W. Papez, Atlanta Medical College: "On the Position of the Vitelline Arteries in Human Embryos"; by Mr. F. H. Rose: "Models of the Urogenital Tract of the 20mm. Pig Embryo"; by Dr. John Warren: "On the Pineal Region in Human Embryos"; by Mr. T. F. Wheeldon: "The Coronary Vessels of the Heart of the 20mm. Pig Embryo." Drs. Bryant, Green and Morrison have published many clinical papers.

At the end of this year the Department lost the services of Associate Professor Warren and Dr. Begg, both of whom have taken up active work in the Medical Reserve Corps of the Army.

The Minot Embryological Collection has been increased by the addition of several new specimens, some of them of especial value. The number of series now has reached 2085. Many specimens have been loaned to investigators in other universities and this use of our slides is being encouraged and will continue. Furthermore, the specimens have been used for research by several guests of the Department, who came to avail themselves of the resources of the collection.

Laryngology.—By a recent change in the curriculum, the required instruction in five subjects, including Laryngology, was this year for the first time given in the fourth year and allotted twice the previous amount of time. The result in the Department of Laryngology has been satisfactory. Each student is now assigned to the course for the whole morning of two weeks, or about forty-two hours, in sections of from four to six men. During the first

half of the morning the section receives practical instruction in the use of instruments, and examination of patients. For the second half of the morning, different exercises, both didactic and clinical, are held on different days, some of them in combination with sections from other Departments.

The first year's experience under this new schedule shows that much more satisfactory work both for the student and the instructor can be done than by the older method.

Publications: by Dr. J. L. Goodale: "The Diagnosis and Management of Vasomotor Disturbances of the Upper Air Passages," read before the American Laryngological Association, May 9, 1916, at Washington, D. C.; by Dr. H. P. Mosher: "Webs and Pouches of the Oesophagus; Their Diagnosis and Treatment," "Paraffin as a Dressing for the Radical Mastoid Cavity."

Otology. — The head of the Department of Otology, Assistant Professor Crockett, is in Europe on Red Cross Services in connection with the War. Dr. Calvin Faunce is in temporary charge. The following members of the Department have accepted commissions in the Army and have been ordered to duty: Drs. William F. Knowles, Harry P. Cahill, Charles T. Porter, and Harold G. Tobey. Because of their absence and continuance of the course during the summer months, few papers of importance have been written.

Dr. Emerson wrote on "The Relation of Otology and Laryngology to General Medicine," and "The Advances in the Treatment of Progressive Deafness from Chronic Secretory Otitis Media."

The Department has successfully carried out coöperative teaching with the Departments of Ophthalmology and Laryngology.

Comparative Pathology. — A series of lectures on Comparative Pathology were given by Dr. Fabyan to the students in Tropical Medicine. During the latter half of June a course in Parasitology was given by Drs. Tyzzer and Fabyan to a class of medical officers preparatory to active service in the United States Navy.

A considerable amount of helminthological material has accumulated in this Department, the greater portion representing that preserved and identified by Professor Theobald Smith, other material representing a collection made by Dr. Philip Garrison and additional specimens from other sources. This material has been brought together in a single collection, the specimens placed in uniform containers and labelled and catalogued.

Drs. Tyzzer and Honeij published an article on "The Effect of Radiation on the Development of the *Trichinella Spiralis*."

Warren Anatomical Museum. — The Warren Anatomical Museum has been used more largely for instruction than in previous years.

The gallery cases, which had been ordered last year, were completed in the late fall. These afforded the space which was so much needed, but necessitated the rearrangement of the entire north side of the gallery and recataloguing the specimens.

In the early part of the year a case was placed on the main floor for the temporary exhibition of subjects of particular interest. The first was on poliomyelitis.

At the outbreak of the War it was deemed advisable to close the Museum to the general public for the present, and admission is obtained only upon application to the Curator.

The War specimens from Europe were especially useful in the course to the military and naval surgeons, as were also the historical collection from previous wars.

Gynaecology and Obstetrics.

A. Gynaecology. — Contributions to literature and to research work by the members of the Gynaecological Department during the past year are: by Professor W. P. Graves: "Transplantation and Retention of Ovarian Tissue after Hysterectomy," "Gynaecological Causes of Low Back Pain," "Division of the Ureter in Pelvic Operations," "Ovarian Organotherapy," Revision of textbook, "Graves' Gynaecology."

Under the direction of Dr. Graves, Dr. E. B. Sheehan has been carrying out animal experiments on effects of ovarian transplantation. Dr. J. C. Janney has instituted a series of experiments on the effects of ovarian extracts. The work of both Dr. Sheehan and Dr. Janney was interrupted by their entrance into the Army.

By Dr. E. B. Young: "Eclampsia at the Boston City Hospital"; by Dr. N. R. Mason: "Vaginal Delivery after Caesarean Section."

Dr. Mason has been testing the effect of twilight sleep in operative work followed by paravertebral anaesthesia in cases where other anaesthetics offer a considerable risk. By Dr. J. T. Williams: "Retroversion of the Uterus; Its Etiology and Rational Treatment."

B. Obstetrics. — The publications of the Department of Obstetrics have been as follows: by Dr. F. S. Kellogg: "Caesarean Section Overdone," "Ether in Obstetrics," "Pre-natal and Post-natal Care," "Leiomyoma of the Rectal Septum," "Chronic Valvular and Heart Disease in Pregnancy and Labor"; by Dr. F. S. Newell: "The Present Status of Abdominal Caesarean Section."

Scholarships and Student Aid. — Dr. Franklin Dexter continues as Director of Scholarships and the awards for the past year have been as follows: —

| | Medical | Dental | Total |
|--|---------|--------|---------|
| Number of applicants for first-year scholarships . . . | 27 | .. | 27 |
| Number of applicants for other scholarships | 58 | .. | 58 |
| Number of students interviewed | 125 | 12 | 137 |
| Number of interviews | 393 | 19 | 412 |
| Number of letters received and answered | 369 | 34 | 403 |
| Total number of students aided (exclusive of scholarships) | 22 | 4 | 26 |
| Number to whom money was loaned | 19 | 4 | 23 |
| Number to whom money was given | 6 | .. | 6 |
| Amount of money loaned | \$1,665 | \$230 | \$1,895 |
| Amount of money given | 430 | .. | 430 |
| Sources from which money was obtained: | | | |
| Private Fund | 1,945 | 230 | 2,175 |
| Anonymous Gifts | 150 | .. | 150 |
| Amount of money refunded | 1,143 | 110 | 1,253 |

Library. — The number of accessions to the Library is as follows:

Purchased:

| | |
|---|----|
| Central Library | 50 |
| Anatomical Library | 2 |
| Bowditch Library | 10 |
| Purchased by Bowditch Fund | 4 |
| Purchased by Surgical Library Book Fund | 4 |
| Purchased by the Department of Anatomy | 16 |

 Total number of volumes purchased 86

| | |
|--|-----|
| By gift | 541 |
| By exchange | 25 |
| Added by binding periodicals | 271 |
| Transferred from Harvard College Library | 17 |

854

| | |
|--|-------|
| Pamphlets | 2,459 |
| Pamphlets transferred from Harvard College Library | 235 |

2,694

| | |
|--|-------------|
| Periodicals transferred from Harvard College Library | 800 numbers |
| New periodicals purchased | 6 |
| New periodicals, gift | 2 |

Total number of accessions:

| | |
|---------------------|-------|
| Volumes | 940 |
| Pamphlets | 2,694 |

These accessions added to those of previous years make a total for all of the Libraries as follows:

| | |
|---------------------------|--------|
| Volumes | 29,409 |
| Pamphlets | 51,694 |
| Current periodicals | 277 |

Included in the above total are 376 duplicate volumes which formerly were counted but now in the reorganization of the Central Library are continually being eliminated from the general collection. They will form a reserve set for future use.

The files of foreign periodicals are more incomplete than last year. Very few issues have been received and it is uncertain whether or not many of the journals have ceased publication altogether. But until the end of the War, when there will be a readjustment, they will continue to be included in the list of current periodicals. In consequence of this decrease the number of volumes added by binding has been smaller than last year. This has, however, given the Library an opportunity to have many of the much used books and periodicals repaired and rebound. Also, some of the old journals received from Harvard College Library have been bound so as to help to complete our sets.

Again this year the friends of the Library have been most generous and the gifts of books, pictures, and pamphlets have been both numerous and interesting.

The number of books, periodicals and pamphlets, drawn from the different Libraries, is as follows:

| | 1914-15 | 1915-16 | 1916-17 |
|-------------------------------|---------|---------|---------|
| Central Library | 1,125 | 2,505 | 2,846 |
| Anatomical Library | 550 | 208 | 327 |
| Bowditch Library | 1,235 | 1,012 | 1,240 |
| Bacteriological Library | 1,198 | 300 | 200 |

The attendance of readers has been:

| | 1914-15 | | | 1915-16 | | | 1916-17 | | |
|-----------------|---------|-------|-------|---------|-------|--------|---------|-------|--------|
| | Day | Even. | Total | Day | Even. | Total | Day | Even. | Total |
| Central Library | 6,600 | 1,800 | 8,400 | 10,130 | 3,078 | 13,208 | 11,716 | 2,854 | 14,570 |

It is encouraging to note the increase each year. The Library is used more and more as a place for study and it is gratifying to have the students say they can study better there than at home. It is hoped the number of readers will continue to increase indefinitely.

Appointments Bureau. — The Appointments Bureau during the year offered 183 positions and 83 men applied, — distinct increase over the statistics of last year.

The following represent the kind of positions offered:

| | | | |
|-------------------------------|----|--------------------------------|-----|
| General practice..... | 26 | Health Officers..... | 7 |
| Travelling..... | 1 | Laboratory..... | 2 |
| Administrative..... | 1 | Assistant to Physician..... | 3 |
| School Physician..... | 2 | Industrial..... | 16 |
| Teaching..... | 3 | Army..... | 1 |
| Camps..... | 15 | Navy..... | 2 |
| Temporary Positions..... | 11 | Pathology and Bacteriology.... | 14 |
| Practice for sale..... | 2 | Athletics..... | 1 |
| Resident Physicians..... | 14 | Fellowships..... | 3 |
| Hospitals..... | 22 | Physiology..... | 2 |
| Surgery..... | 1 | Orthopedics..... | 1 |
| Ear, eye, etc..... | 5 | Insurance..... | 1 |
| Sanitoriums..... | 3 | Students' Aid..... | 9 |
| Companion..... | 6 | China..... | 2 |
| Hospital Superintendents..... | 2 | European War..... | 5 |
| | | Total..... | 183 |

In addition to these opportunities there were 99 announcements received from various hospitals offering internships, as a rule without salaries.

Of these, it is impossible, or nearly so, to fill three types of positions: (1) State hospitals for the insane or tuberculous, offering \$800 to \$1000 and maintenance, which pay too little for future opportunity; (2) clinical pathology and bacteriology positions at \$1800 to \$2500 pay too little for full time; and (3) general practice. In regard to the latter, men ask for openings of this kind, but seldom even investigate those offered. A general practice in a small town designated usually as "unopposed" does not offer any inducement to these men. Some men who have gone to small towns and soon reached their limit of financial returns come to seek larger places.

The following is a list of the number and kind of positions filled:

| | | | |
|-----------------------|---|--------------------|----|
| Companion..... | 4 | Insurance..... | 2 |
| Hospitals..... | 4 | Pathology..... | 1 |
| Public Health..... | 4 | Students' Aid..... | 3 |
| General Practice..... | 4 | Sanitoriums..... | 2 |
| Industrial..... | 2 | Camps..... | 7 |
| Laboratory..... | 1 | Total..... | 34 |

The following list represents the kind of positions desired by the 83 men applying to the Bureau:

| | | | |
|-----------------------------|----|--------------------|----|
| General Practice..... | 6 | Public Health..... | 3 |
| Temporary positions..... | 28 | Industrial..... | 2 |
| Summer positions..... | 7 | Bacteriology..... | 2 |
| Salaried positions..... | 7 | Insurance..... | 1 |
| Hospitals..... | 10 | Teaching..... | 2 |
| Practice of Surgery..... | 9 | Army and Navy..... | 1 |
| Assistant to Physician..... | 4 | Companion..... | 1 |
| | | Total..... | 83 |

In order to effect a closer coöperative spirit between the Bureau and the various departments of the School, a circular letter was sent to all heads of departments, requesting that they refer to the Bureau openings and opportunities which come to their attention and assuring them of a similar courtesy on the part of the Bureau. Several of the departments have been notably responsive in this respect, and it is hoped that in the future this plan may be even more effective.

The Bureau reports with regret the formal resignation of Dr. Emmons as Director of the Appointments Bureau.

Cancer Commission.—The Cancer Commission of Harvard University continued its work in 1916–17, in the Laboratories at the Harvard Medical School, and in the Collis P. Huntington Memorial Hospital for Cancer Research.

Owing to the resignation of Dr. E. E. Tyzzer from the position of Director to take the Professorship of Comparative Pathology, that position was not filled, and Dr. R. B. Greenough acted as Chairman of the working committee as well as Secretary of the Commission.

Professor E. E. Tyzzer was appointed a member of the Commission, in place of Dr. Theobald Smith, resigned, and was of great assistance in helping on the work, especially in the Pathological Department.

Asst. Professor William Duane continued to hold his position as Research Fellow in Physics, Dr. W. T. Bovie as Research Fellow in Physics, Dr. Henry Lyman as Research Fellow in Chemistry, and Dr. C. C. Little as Research Fellow in Genetics.

Dr. A. A. Ghoreyeb was appointed Research Fellow in Pathology.

Investigations were carried on by all of these members of the Commission, and papers were read at a number of scientific meetings.

The work of the Hospital continued during the year 1916–17, with an increased number of patients, both in the House and in the Out-Patient Department. Five hundred and seventy-five new cases were brought to the Hospital during the fiscal year. The work of the Hospital has continued to be mainly the investigation of the action of radium and radio-active substances in the treatment of cancer and of allied conditions. The amount of radium available for the use of the Hospital was increased to nearly 1000 mgms., by the generous gift of friends of the University, and with increased amount of radium it has been possible to give more effective treatment.

A report upon the results of radium treatment was prepared, and presented with clinical demonstrations, at a meeting of the Boston Surgical Society in April, 1917. Certain special groups of cases were collected and studied by different members of the Hospital Staff, and presented at this time, and these reports are now appearing in the *Boston Medical and Surgical Journal*, and will be collected in a general report embodying the results of treatment in many different directions. An abbreviated report of the same cases was presented by Dr. Duane and Dr. Greenough at a meeting of the Massachusetts Medical Society, in June, 1917.

The clinical and pathological material of the Hospital was used for the instruction of students in the Medical School, and a course in laboratory technic, for nurses, was carried on successfully by Miss Gibson, Superintendent, for training graduate nurses in the details of clinical laboratory work.

The Harvard Infantile Paralysis Commission was appointed in September, 1916, following the epidemic of that summer, to study the problems which had arisen in connection with that disease. The work was divided into three divisions:—

1. Under the direction of Dr. Francis W. Peabody aid was given in diagnosis to local physicians and human immune serum was collected and administered to patients when this treatment was thought desirable. During the past year the diagnosticians were appealed to in 223 cases, in 146 of which the diagnosis of infantile paralysis was made, and to 120 serum was administered.

2. Under the direction of Dr. Milton J. Rosenau investigations were conducted on the cause and mode of the spread of the disease. The cultural characteristics of all organisms associated with Infantile Paralysis were studied and other immunological reactions compared. The disease was also studied from the standpoint of animal distemper, as there is a group of diseases among animals which seem to resemble Infantile Paralysis. Particular attention has been given to the spread of the disease by the stable fly and the rat flea. Many of these investigations are still being conducted and the results of others will be published shortly.

3. Under the direction of Dr. Robert W. Lovett and in coöperation with the State Department of Health of Massachusetts, state-wide work has been conducted to give free treatment and advice to those left paralyzed by the disease. Clinics were conducted at the Children's Hospital, at the Massachusetts General Hospital, and travelling clinics were held in Newburyport, Springfield, Lynn, Quincy, Beverly, Greenfield, Worcester, Melrose, Lawrence, North

Adams, Lowell, and Malden. In all 1192 persons have been seen. The cases are visited in their homes once a month by field workers, who supervise the treatment of the children by their parents or other relatives.

The scope of the work of the Commission has been somewhat curtailed for the lack of funds, but it will be continued so long as money is available, and the paralyzed children continue to improve under treatment.

GENERAL STATISTICS OF THE SCHOOL

Candidates for the Degree of Doctor of Medicine

| | |
|---|-----|
| New matriculants..... | 120 |
| The number of students in attendance:— | |
| Fourth Class..... | 68 |
| Third Class..... | 93 |
| Second Class..... | 87 |
| First Class..... | 109 |
| Total..... | 357 |
| Applicants for the Degree of M.D. (February, 1917)..... | 10 |
| Applicants for the Degree of M.D. (June, 1917)..... | 57 |
| Total..... | 67 |

Of the 67 students who received the Degree of Doctor of Medicine, 3 received the Degree *magna cum laude* and 10 *cum laude*.

Candidates for the Degree of Doctor of Public Health

| | |
|--|-----|
| The number of students in attendance..... | 6 |
| Applicants for the Degree of Dr. P. H. (June)..... | 1 |
| Rejected..... | 0 |
| Total..... | 1 |
| Students in courses of the regular medical curriculum..... | 357 |
| Students in the Doctor of Public Health courses..... | 6 |
| Total..... | 363 |

EDWARD H. BRADFORD, *Dean*.

GRADUATE SCHOOL OF MEDICINE

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — As Director of the Graduate School of Medicine, I have the honor of presenting my report for the school year 1916–17.

The Administrative Board remains the same as at the end of the previous school year:— Horace David Arnold, M.D., Director; Alexander Swanson Begg, M.D., Dean; Edward Hickling Bradford, M.D.; Algernon Coolidge, M.D.; George Gray Sears, M.D.; Charles Locke Scudder, M.D.; Ernest Edward Tyzzer, M.D.; and Francis Weld Peabody, M.D. Lewis Webb Hill, M.D., was appointed Secretary, November 1, 1916, for the balance of the year ending August 31, 1917.

The number of students registered and the receipts for the past three years are shown in the following table:—

| | Summer Students | Term Receipts | Fall and Students | Spring Terms Receipts | Totals for Year Students | Receipts |
|---------|--------------------|------------------|----------------------|--------------------------|-----------------------------|-------------|
| 1914-15 | 220 | \$14,459.45 | 303 | \$11,492.34 | 523 | \$25,951.79 |
| 1915-16 | 212 | 13,972.94 | 276 | 13,092.68 | 488 | 27,065.62 |
| 1916-17 | 384 | 26,163.00 | 236 | 15,690.65 | 620 | 41,853.65 |

The marked increase in the number of students and in the receipts of the summer term of 1916, as compared with 1915, is due to a considerable extent to a very popular course by Dr. Richard C. Cabot, which was given in July, 1916, but was not given the previous year. Aside from this course there was for the summer term an increase of 52 in the number of students and of \$3662.01 in the receipts. The summer term remains the popular period for graduate study, — especially for practitioners' courses.

During the fall and winter terms the number of students was 40 less than for the same period in the previous year, but the receipts increased by \$2597.97.

Making allowance again for Dr. Cabot's course, the year 1916–17 shows a total increase of 12 in the number of students and of \$6259.98 in the receipts, as compared with the year 1915–16. From other evidence it is clear that the type of student at the School is constantly improving, and that the students come with a more serious desire for study and pursue longer courses on the average. This accounts for the greater increase in the receipts than in the number of students.

Notwithstanding the change of the fiscal year of the School to end June 30, so as to coincide with the fiscal year of the University,

the Treasurer's books do not show the actual financial status of the School as closely as it was hoped would be the case. This is due in part to the fact that the teaching year, ending May 31, does not coincide with the fiscal year ending June 30. It is also due to the fact that part of the remuneration of the instructors, called for convenience a "dividend," is dependent upon the amount of surplus the School has at the end of the year; and this amount cannot be determined and paid before the end of the fiscal year. The actual financial standing of the School is best determined by taking the receipts for the teaching year, June 1 to May 31, deducting the expenditures for the fiscal year, July 1 to June 30, and deducting also any indebtedness incurred during that teaching year such as the "dividend" to instructors mentioned above.

On this basis the financial standing of the School June 30, 1917, was as follows:—

| | | |
|---|------------------------|------------|
| Net receipts June 1, 1916, to May 31, 1917..... | \$41,853.65 | |
| Expenditures July 1, 1916, to June 30, 1917 | 32,755.78 ¹ | |
| | | 9,097.87 |
| Surplus (according to School books), "Dividend" to Instructors for year 1916-17.. | \$5,704.64 | |
| Other indebtedness for year 1916-17..... | 448.68 | |
| Advance payments for year 1917-18..... | 46.35 | |
| Total deductions..... | 6,199.67 | 6,199.67 |
| Net surplus for year 1916-17..... | | 2,898.20 |
| Deficit June 30, 1916..... | | 99.67 |
| Net surplus June 30, 1917..... | | \$2,798.53 |

¹ Bursar's Report.

On the same basis the net surplus for the year 1915-16 was stated in the last annual report as "about \$2000," compared to \$2898.20 for 1916-17. The experience of these two years would seem to indicate the realization of the financial aims which the Graduate School has had in mind, which may be summarized as follows:— reasonable charges to students, reasonable remuneration to instructors, and the accumulation of a small surplus annually to be devoted to the development of teaching.

The following table shows the number of courses which have been attended by any students during the past three years:—

| | 1914-15 | 1915-16 | 1916-17 |
|------------------|---------|---------|---------|
| Summer Term..... | 106 | 103 | 120 |
| Fall Term..... | 77 | 59 | 59 |
| Spring Term..... | 68 | 58 | 64 |
| Total..... | 251 | 220 | 243 |

In the last annual report attention was called to the extra-mural lectures and courses organized by the School. This work has been continued. A course of 9 lectures was given this year before the Newburyport Medical Club; a course of 36 lectures before the Springfield Academy of Medicine; and a course of 14 lectures before the medical profession of Worcester and vicinity. This plan carries instruction to the physicians at their homes; it reaches many physicians who are unable to come to the School; and it is thus rendering a service to the community. The plan deserves development, provided it does not interfere with the regular work of the School.

Instruction in military medicine, plans for which were inaugurated in the winter of 1915-16, was offered to the profession in July, 1916, and in March and April, 1917. In this instruction the School had the hearty support of the Medical Departments of the Army and of the Navy, both of which detailed excellent instructors for the course, — a favor greatly appreciated by the School. Colonel Weston P. Chamberlain, from the Medical Corps of the Army, was appointed Lecturer on Military Medicine and gave the larger part of the lectures. He was ably assisted by Drs. Norman J. Blackwood and George F. Freeman, from the Medical Corps of the Navy. This course was offered to the medical profession free of charge, as one of the School's contributions to the preparedness of the nation. The lectures were attended by a large number of physicians.

The effect of the war on the Graduate School of Medicine cannot be fully foretold. It seems probable, however, that there will be a very marked loss in the number of students applying for such instruction. Those physicians who do not enter active service will in general be too busily occupied to be able to come to the School for courses. The patriotic response of so many of our teachers for active service has already crippled the resources of the School, and the opportunities offered are necessarily much curtailed. Even if no income is received from students, the surplus already earned by the School will enable it to carry on the administrative work, for a time at least, without becoming a burden to the University. The organization can be preserved; we will do all possible for physicians in civilian practice; but probably our greatest service during the war will be in the possibility of offering instruction that will be helpful to the Army and the Navy. For such coöperation the School will always hold itself ready.

HORACE D. ARNOLD, *Director.*

THE SCHOOL OF TROPICAL MEDICINE

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — As Acting Director of the School of Tropical Medicine I have the honor to present the following report for the year 1916-17.

Investigations and Expeditions. — During the past year unusual opportunity presented itself to secure special workers for the Department and to send out some expeditions to the tropics. At the beginning of the school year arrangements were made (1) for the appointment of Dr. E. L. Walker for special work in kala azar, (2) for the survey of some of the United Fruit Company hospitals by Dr. Charles B. Spruit, and (3) through the influence of Dr. J. Collins Warren for the survey of the Amazon basin by Professor W. T. Councilman.

A case of kala azar occurred last fall at the Massachusetts General Hospital. At present it is a much disputed question whether this disease is spread from one individual to another, or whether an infected patient can be allowed to go about freely with perfect impunity to the community. Dr. E. E. Tyzzer, in charge of Protozoölogy, and Dr. Walker have studied this problem throughout the past year. The result of their researches affords a basis for the ultimate solution of this problem. Dr. Walker served as an honorary appointee while on leave of absence from his professorship at the University of California. Additional help in the study of kala azar was afforded by Dr. Oscar Teague. Dr. Teague came to the Department in May, 1917, as Lecturer in Tropical Medicine, but was called in a few weeks to active service by the War Department. During this period Dr. Teague contributed data of much value to the Department from his studies on the infection of animals.

Dr. Spruit, holding a Moseley Travelling Fellowship, spent the year working in the United Fruit Company hospitals in Colombia and Costa Rica; he returned to Boston in October, 1917. In addition to assisting with the routine work of the laboratory and wards, Dr. Spruit was able to replenish very liberally the Department's collection of malarial material. Furthermore, Dr. Spruit obtained experimental data upon the therapeutic value of a new drug, "leche de igoron," for use in helminthic infections. This work is being prepared for publication.

Through the coöperation of Dr. A. Hamilton Rice and Dr. J. Collins Warren, arrangements were finally completed whereby Dr. Councilman accompanied the Rice expedition to the Amazon. Without expense to this School, Dr. Councilman very kindly looked after the interests of tropical medicine. Valuable information was obtained both as regards the medical conditions and also concerning the suitability of this region as a location for a permanent tropical station of the University.

My own work has consisted in an extension of the studies of light and heat which were begun last year in Colombia. These investigations are now ready for the press. Work in a somewhat new field has been commenced, namely, the active principle and study of the therapeutic value in amoebic infections of a Mexican drug, "chapparo amargoso." Fortunately the Department was able to secure the services of Dr. Monroe McIver to assist in this investigation for a period of two months during the summer. We have obtained clinical evidence that the drug has therapeutic value; in the laboratory we have secured evidence pointing toward the presence of an active principle. We have not yet succeeded in identifying or isolating an active principle.

Publications. — Two publications have been completed during the past year, namely:

"The Principles of Acidosis and Clinical Methods for its Study."

By Andrew Watson Sellards. Harvard University Press, 1917.

"The Preparation of Hemoglobin for Clinical Investigations." By Andrew Watson Sellards and George Richards Minot. *Journal of Medical Research*, September, 1917.

Personnel of Staff. — The Director of this School, Dr. Richard P. Strong, returned to the University in December, 1916, after successfully finishing the first complete medical and sanitary survey of South America that has been undertaken. With the declaration of war by the United States Dr. Strong was at once called to Europe, April 14th, to represent sanitation and hygiene on the Commission of the National Research Council.

Two new appointments have been made to the staff for the year 1917-18. At the recommendation of Dr. Bovie, Dr. Sumner Cushing Brooks was appointed Research Fellow. His special field will be the study of radiant energy. In order to further clinical investigation, Dr. Benjamin H. Ragle was appointed Research Fellow with the special purpose of studying pellagra.

Instruction and Routine. — There are several obligations which this School has undertaken, namely, (1) the offering of courses of

instruction in tropical medicine; (2) the development of a clinic in the subdepartment of tropical medicine at the Massachusetts General Hospital; (3) the conduct of research work in tropical medicine and allied subjects in general medicine; (4) the establishment of work at stations in the tropics by coöperation more especially with the United Fruit Company.

The usual courses of instruction have been given as in previous years, with the same cordial coöperation of the Departments of Pathology, Comparative Pathology, Bacteriology, Preventive Medicine, Zoölogy, Entomology, Botany, and Climatology.

Clinical material at the Massachusetts General Hospital in purely tropical conditions has been scanty during the past year. However, one disease, kala azar, has occurred there, this being the first case to be recognized in the United States.

Research problems in tropical medicine appropriate for study in this locality are under investigation, and arrangements have been completed for increasing this phase of the School's activity.

Dr. Spruit represented the School in the United Fruit Company hospitals during the past year. This obligation is as yet unprovided for during the coming year. With the manifold resources of the University, suitable arrangements can very possibly be provided at a later date.

ANDREW WATSON SELLARDS.

THE DENTAL SCHOOL

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — As Dean of the Dental School, I have the honor of presenting my report of the School for the academic year 1916-17.

STATISTICS OF ENROLMENT

| | |
|-----------------------------|-----|
| Post-graduate student | 1 |
| Third-year students | 68 |
| Second-year students | 76 |
| First-year students | 94 |
| <hr/> | |
| Total | 239 |

Instruction was given in the following subjects: —

Anatomy and Histology. — Associate Professor BREMER, Associate Professor LEWIS, Associate Professor WARREN, Instructors BOYDEN, GREEN, Lecturer THOMA, Assistants FRASER, LELAND, MILLER, MORRISON, RISLEY, SHAPIRA, Teaching Fellows GLOVER, SHANER, Fellows FURFET and SEVERY.

Dental Anatomy. — Lecturer THOMA, Fellows PARKER, FURFET and SEVERY, and Teaching Fellow SHANER.

Physiology. — Professor CANNON, Asst. Professor STILES, Instructors DRINKER and FORBES, Teaching Fellows CATTELL, KREUTZMANN, LUTZ and PIERCE, Austin Teaching Fellow REDFIELD.

Physiological and Dental Chemistry. — Lecturer H. CARLTON SMITH, Instructor RICE.

Bacteriology. — Professor ERNST, Associate Professor WOLBACH, Instructors FLOYD, PAGE and STEELE, Assistants BOUTWELL, HAMMOND, PERRY and SPOONER.

Materia Medica and Therapeutics. — Lecturer O'CONNELL, 32 lectures.

Therapeutics. — Lecturer STANTON, 10 lectures.

Dental Pathology. — Professor BRACKETT, 15 lectures; Lecturer THOMA, 15 lectures.

General Pathology. — Professor MALLORY, 20 lectures, 20 laboratory exercises.

Neurology. — Instructor E. W. TAYLOR, 4 lectures.

Crown and Bridge Work, Seniors. — Professor COOKE, 15 lectures; Lecturer J. F. HOVESTAD, 15 lectures and demonstrations.

Crown and Bridge Work, Laboratory, Seniors. — Lecturer J. F. HOVESTAD, Instructors PETERS, ANDREWS, BRIGHAM, HAYDEN, FLAGG, F. W. HOVESTAD, and RUELBERG, Assistants ROBERTS and CUSHMAN. 120 hours.

Orthodontia, Seniors. — Professor E. H. SMITH, 10 lectures; Asst. Professor BAKER, 20 lectures.

- Orthodontia Practice, Seniors. — Professor E. H. SMITH, Asst. Professor BAKER, Instructors FERNALD, HOWE, HATFIELD, W. C. MINER and GOVE, Assistants BLUMENTHAL, BONIN, PEACOCK, SEVERY and WEBSTER. 158 hours.
- Prosthetic Dentistry, Seniors. — Instructor RUSSELL, 32 lectures.
- Prosthetic Dentistry, Laboratory, Seniors. — Instructors RUSSELL, LANGLEY, MYERSON, GAHM, WESTON, SHANNON, CLARK, CALDER, TASHJIAN, Assistants CAVANAGH and MARSH. 384 hours.
- Facial restorations and fractured jaws. — Assistant RIHAN. 240 hours.
- Prosthetic Dentistry, Juniors. — Instructor BECKFORD, 32 lectures.
- Prosthetic Dentistry, Laboratory, Juniors. — Instructors BECKFORD, ELDRED, HURLEY, LOOMER, CATHERON, LORD, SULLIVAN, GLAZIER, MALMSTROM, NUTTER, and ROGERS, Assistants B. S. STEVENS, TERRA, ELLARD, McCARTY, WADE, GOETZ and LESLIE. 595 hours.
- Prosthetic Dentistry, Laboratory, First Year. — Assistants BURTT, FORBUSH, GALLOWAY, GRAY, MAHONEY, WILLIAMS, WHITE, and JOHNSON. (Assisted without appointment). 64 hours.
- Extracting and Anaesthesia. — Instructors FARRINGTON, MIDGLEY, NORWOOD, WOLFE, RING and HERDER, Assistant J. M. SMITH. 820 hours.
- Inlays, Practical Work, Seniors. — Instructors HADLEY, OLDHAM, NESBETT. 96 hours.
- Inlays, Specimens, Juniors. — Instructors HADLEY and WARNER. 75 hours.
- Radiography. — Instructor CUMMINGS, 8 lectures, 2 quizzes, 1452 cases.
- Surgical Pathology and Surgery. — Professor MONKS, 27 lectures; Instructor BLAKE, 5 clinics; Professor MONKS, Asst. Professor MINER, Instructor TAFT, clinics, 160 hours.
- Syphilis. — Instructor C. MORTON SMITH, 1 lecture, 32 clinics.
- Operative Dentistry, Seniors. — Professor POTTER, 32 lectures.
- Operative Dentistry, Lectures and Clinical Conferences, Professor E. H. SMITH. 20.
- Operative Dentistry, Practical Work, Seniors. — Professor SMITH, Instructors JEWELL, EDDY, SHEPHERD, CODMAN, PARSONS, PARKHURST, NAYLOR, LIBBY, PAUL, ELLIOTT, PIKE, STONE, WHITCHURCH, CHASE, CARLE, TIMLIN, PROVAN, DAVIS, SPINNEY, CROWLEY, SQUAREBRIGGS, JAMESON, ESTES, LAWTON, McCULLAGH, F. T. TAYLOR, HEAP, JEWETT, GILMAN, MALLETT, RYDER and EMERSON, Assistants SPENCER, ASHLAND, G. B. BLAISDELL.
- Operative Dentistry, Clinical Demonstrations, Seniors. — Assistant Professor BLAISDELL and Instructor FURFEY.
- Operative Dentistry, Juniors. — Lecturer DILL, 32 lectures.
- Operative Dentistry, Practical Work, Juniors. — Lecturer DILL, Instructors WOOD, MACKINTOSH, SAFFORD, PERRIN, WYMAN, C. E. STEVENS, BURNHAM, SLACK, WHITE, CARTER, McGOURTY, and EMERSON, Assistants LOCKWOOD, THOMSON, HAYMAN, WALLACE, RINGER, LOVELAND, and CURTIS. 535 hours.
- Pyorrhoea Alveolaris, Seniors. — Dr. STANLEY and Dr. C. B. VAUGHAN, 32 clinics.

The record of laboratory work and service to patients is as follows: —

| | |
|---|--------|
| No. of specimens and models, laboratory work..... | 2,208 |
| “ practical cases in Prosthetic Department..... | 2,054 |
| “ cases treated for irregularities of teeth..... | 150 |
| “ operations in Surgical Department..... | 7,412 |
| “ operations in the Operative Department..... | 20,531 |
| “ radiographs..... | 4,866 |

The committee appointed last June by the Alumni and the Harvard Odontological Society, to arrange for the celebration in November of this year of the fiftieth anniversary of the School, held several meetings and planned for an attractive program. The conditions, however, incident to the stress of war, caused the Administrative Board, after consultation with the various heads of sub-committees, to reconsider its action of last winter and to declare it unwise to carry out the plans of the committee.

Immediately following the declaration of war with Germany by the United States, the facilities of our dental hospital were offered to the State for the care of the teeth of the soldiers of the Army and Navy, and the new recruits. This offer was gratefully accepted and during the year a large number of these men availed themselves of this service and were cared for largely by volunteers on the part of our graduates, who sacrificed a great amount of time from their offices, in order to do their part in the work. Still others of our graduates, who could not well come to the School, rendered most efficient service at their offices.

In connection with this service, I am pleased to report that we are under deep obligations to several good friends of the School, who contributed money toward meeting the expense of this special clinic.

During the summer Dr. Leroy M. S. Miner gave a special course in dental military surgery to graduate men and advanced students.

Professor William H. Potter, who in the early part of the war spent the winter of 1914 in the Ambulance Hospital in Paris, is again at the Western Front with the Peter Bent Brigham Unit, Base Hospital No. 5. With Dr. Potter are the following men, recent graduates of the school: Dr. Harrison L. Parker, Dr. Harold J. LaFayette, Dr. William J. Kenefick, and students Ronald M. King and Seward S. Leather.

Dr. Varaztad H. Kazanjian and Dr. Ferdinand Brigham, who have been in active service since the outbreak of hostilities, are still continuing their wonderful dental work with the British Expedi-

tionary Force in France, and are at present assisted by Dr. Frederick J. Caldwell and Dr. Chauncey N. Lewis.

During the past year the British Government has furnished Dr. Kazanjian with a well built and fully equipped dental hospital in the immediate vicinity of Base Hospital No. 22. This in itself shows the appreciation of the British Government of Dr. Kazanjian's work.

Dr. William H. Gullifer of the teaching staff, and Dr. W. Haven Sherburne, a recent graduate, received their commissions as first lieutenants in the Dental Corps, and were appointed to the staff of Base Hospital Unit No. 6, of the Massachusetts General Hospital, and sailed for France in June.

In the early part of the summer, I was asked by a representative of the Red Cross if I could recommend several graduates of our School, who would be willing to go, under the auspices of the Red Cross, to France and Serbia, to care for the teeth of the destitute orphan children. I was able to enlist in this service Drs. Adrian P. Brodeur, Cleophas P. Bonin, Raymond H. Watson, Walter E. Wade and John H. Jaffar. Dr. Brodeur sailed for France in June, Drs. Bonin and Watson in October, and Drs. Wade and Jaffar for Serbia in November.

A recent letter from Dr. Brodeur tells me that upon his arrival in France he was stationed for six weeks in Paris, where he worked on the children of the receiving depots at Paris, and treated two colonies of children at Versailles. He then spent a month in Burgundy, and during that time treated the teeth of ninety-three little boys and girls. He is now located at Cobourg in Normandy, where he finds a great deal of dental work to be done. As a whole, the teeth of the children are in a very bad condition, and require a great deal of attention. Dr. Brodeur has become very much interested in these children, and finds that they gain in health and spirits as their mouths are put into a healthy condition.

During the year our Museum has received, by bequest of Miss Edith Page, granddaughter of the School's first Dean, Dr. Nathan C. Keep, a table and accessories belonging to and used by him during his lifetime; also a gift of Miss Elinor Hamlen, of Northampton, of photographs of original letters from General U. S. Grant to her father, Dr. Hamlen, who rendered dental services to General Grant while he was at the front, in command of the Federal forces during the Civil War.

The increasing demands on the X-ray Department forced us to incur quite an expense in installing a Schiedal-Weston Transformer.

With the new machine Dr. Earle C. Cummings, who is in charge of the department, is able to handle the many cases that daily come to the clinic, including full plates of the jaws and head, as well as the smaller films of the teeth.

The Harriet Newell Lowell Society for Dental Research held six meetings during the year. At the first meeting in October, Dr. Percy G. Stiles of the Department of Physiology of the Harvard Medical School, and Dr. E. H. Smith, Dean of the Dental School, spoke on the value of research work and the opportunities offered by such a society to its members. At the second meeting Dr. Francis H. McCrudden, Director of the laboratories of the Robert B. Brigham Hospital, spoke on "The Purpose of Treatment in Chronic Disease." The December meeting was Ladies' Night and the address was given by Dr. Merrill E. Champion, State District Health Officer, whose subject was "The Work of the State Board of Health of Massachusetts." Dr. E. A. Boyden, of the Department of Comparative Anatomy of the Harvard Medical School, addressed the February meeting. His subject was "The Evolution of Man in the Light of Post-Darwinian Discoveries." At the March meeting Mr. Moses J. Eisenberg of the Class of 1917 read a paper, "Preliminary Studies in the Bacteriology of Dentine Immediately below Caries," and at the annual meeting in May, Dr. E. C. Cummings of the Harvard Dental School read the first of a series of papers which he is preparing, dealing with the "True and False Values of Dental Radiograph Interpretation."

Four students took out desks in the Research laboratory. Paul H. Karcher, 1918, studied the oxydaze content of the saliva in relation to the presence and absence of the tonsils. Homer D. Lindgren, 1919, began the investigation of pyorrhoea tartar. Harold C. Lockwood, 1918, began the study of the systemic conditions in two well-defined cases of erosion, and Harold C. Robinson, 1918, studied the saliva from a case of acid mouth which he had in the infirmary.

In July, Dr. Eisenberg, by invitation of the Administrative Board, began his work as research worker. He is studying pyorrhoea and dental caries and will make a report of his work at the January, 1918, meeting of the Society. He is also studying the relation of the ductless glands to dental disease.

Dr. Kurt H. Thoma has finished his work on abscesses and published the conclusions in the October, 1917, number of the *Journal of the National Dental Association*. He has started new research work on the histo-pathology of the pulp and the development of

the salivary glands and decalcification and shedding of the temporary teeth in cats. Dr. Thoma also published a book on "Oral Roentgenology."

At the Alumni Banquet in June, 1917, the annual medals for distinction in research work in the Harriet Newell Lowell Society for Dental Research were presented for 1912 to Julius Simon Pos for prize essay entitled "The Action of Fruit Juices on the Teeth"; for 1913, to Julius Henry Levine, for essay entitled "The Third Molar in the Evolution of the Jaw"; and for 1916, to Moses Joel Eisenberg, for essay entitled "The Physics of Orthodontic Ligatures." There was no competition in 1914, 1915, and 1917.

The Proceedings of the Research Society for 1916-17 are now in print and will be ready soon for distribution.

Dr. Franklin Dexter, Director of Scholarships in the Medical School, has continued his aid to dental students. It is to be regretted that the Dental School is without funds that could be used by Dr. Dexter to help dental students. The aid that Dr. Dexter has given to dental students, through a period of several years, has been from a private fund.

EUGENE H. SMITH, *Dean*.

REPORT OF THE DIRECTOR OF SCHOLARSHIPS IN THE MEDICAL SCHOOL

Sept. 25, 1916-Sept. 24, 1917

| | Medical | Dental | Total |
|--|---------|--------|---------|
| Number of applicants for first-year scholarships. . | 27 | | 27 |
| Number of applicants for other scholarships. | 58 | | 58 |
| Number of students interviewed. | 125 | 12 | 137 |
| Number of interviews. | 393 | 19 | 412 |
| Number of letters received and answered. | 369 | 34 | 403 |
| Total number of students aided (exclusive of scholarships) | 22 | 4 | 26 |
| Number to whom money was loaned. | 19 | 4 | 23 |
| Number to whom money was given. | 6 | | 6 |
| Amount of money loaned. | \$1,665 | \$230 | \$1,895 |
| Amount of money given. | 430 | | 430 |
| Sources from which money was obtained: | | | |
| Private Fund. | 1,945 | 230 | 2,175 |
| Anonymous Gifts | 150 | .. | 150 |
| Amount of money refunded. | 1,143 | 110 | 1,253 |

FRANKLIN DEXTER,
Director of Scholarships.

THE LIBRARY

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — As Director of the University Library and Chairman of the Council of the College Library, I beg to submit my report covering the year July 1, 1916, to June 30, 1917.

The College Library has now completed the second year of its existence in its new and splendid quarters. The process of settling down is about finished, everything in the building has become familiar by use and already more than half the undergraduates have known no other Harvard College Library. Before long they will be referring back affectionately to "old Widener" and lamenting that they did not profit more by the wonderful opportunities offered them. Not that there is really serious cause to complain in this respect. On the contrary, from the first, students as well as instructors have appreciated their good fortune, and have got much out of it. In such matters our statistics are far from telling the whole tale and they are affected by all sorts of circumstances. For instance, they reveal that the number of books borrowed for home use in 1916-17 was slightly smaller than it was half a dozen years ago. This is due to the vastly improved accommodations for reading on the spot as is proved by the fact that the number borrowed for reading-room use was more than twice as large as it was then. But there is no record of books taken directly from the shelves for immediate consultation in the many reading rooms or in the stalls and studies by people having admission to the stack. In the same way, the keeping open till ten o'clock of the lower reading room, which when it was in Harvard Hall was closed at half-past five, has diminished the overnight use of the books that belong there.

The most notable event in the Library Year has been the opening of the Farnsworth Room, fitted out in memory of a recent Harvard graduate who died on a battle-field in France. It had long been a weak point in the Library of Harvard College that not enough was done to make easy for the undergraduates mere good reading apart from study. The casual and even the serious reader, as every librarian can testify, is quickly attracted by what happens to fall under his eye. What was needed here was a conveniently situated room whose shelves should offer a rich variety of standard works which the student could sit down and read then and there

without formality. This we now have right by the main door of the building, and it offers tempting and profitable opportunities to men some of whom otherwise might not get much further in their knowledge of literature than the text-books in their courses and the current magazines. Even the generally good editions and binding of the volumes in the Farnsworth Room, the attractiveness of the room itself, nay the very comfort of the chairs, have their ethical value. So far the experiment is an unqualified success.

The statistics presented this year for the College Library show some curious features. In spite of the fact that owing to the war but few purchases were made from most of the European countries, and a considerable portion of the available fund was not expended, the number of volumes received, 42,268, not to speak of 19,325 pamphlets, has only once been exceeded in its history. This is explained by the unusually large amounts received by gift or bequest. Yet, according to our figures, the total of volumes in the College Library is only about two thousand larger than it was a year earlier, and that of the pamphlets in the main collection has gone down by over two hundred thousand.

These rather startling results are due to various causes. There has been a general recount and changes have been made in the way of reckoning. The last previous count was in 1901. Since that time all accessions have been religiously entered. The volumes lost, worn out, bound with others, exchanged, or sold as duplicates or otherwise disposed of, have not been registered with equal precision. Then too, for the first time, in the recount made this year note is taken of permanent acquisitions only. Many thousand duplicates that will ultimately be disposed of are no longer included. The shrinkage in the number of the pamphlets is much more extraordinary. Vast quantities of them have never been counted at all, but only guessed at. In 1889 they were estimated at 256,737, and by 1900, at 386,000. The revision of 1901 reduced this figure to 250,000. In 1916 it had risen to 457,800. It has now been reduced once more to 252,000, less than the figure for 1889. And yet, according to our own accession figures, we have received since 1901 alone (not to speak of earlier times) about 288,000 pamphlets.

The chief reasons for these discrepancies, apart from errors in estimation, seem to be, in the first place, according to the stricter rules observed today, great quantities of leaflets, advertisements, and clippings once called pamphlets are no longer counted at all, and they do not deserve to be. Secondly, many pamphlets have

been counted on their arrival and afterwards disposed of without due notice being taken of the fact, or in such a way that they no longer enter into the count. This does not necessarily mean that they have been got rid of. On the contrary, if they have been bound singly or, if annual reports, tied up in bundles, they are henceforth transformed into volumes. The apparent size and the pride of our collection may suffer from its latest rigorous census, but when we remember that at best all these distinctions are pretty arbitrary and that there is no logical and satisfactory system, we may have doubts as to the value of comparative library statistics. After much discussion and correspondence we have worked out for our own guidance a new set of rules which seem reasonable and in conformity with the best library practice.

Owing probably to the war, most of the departmental libraries show smaller gains than they did in the previous year.

ARCHIBALD CARY COOLIDGE.

APPENDIX TO THE LIBRARY REPORT

ACCESSIONS

The accessions to the University Library for the year and the present extent of each of its parts are shown in the following tables:—

| LIBRARIES | Volumes added | Present extent in | |
|---|---------------|-------------------|---------------------|
| | | Volumes | Pamphlets (approx.) |
| College Library :— | | | |
| Main Collection | 42,268 | 713,500 | 252,000 |
| Forty-one Special Libraries | 4,888 | 78,617 | 23,700 |
| Total | 47,156 | 792,117 | 275,700 |
| Departmental Libraries :— | | | |
| Law School | 5,642 | 172,073 | 22,900 |
| Andover-Harvard Theological Library | 1,289 | 109,321 | 56,300 |
| Museum of Comparative Zoölogy | 900 | 54,683 | 52,500 |
| Peabody Museum | 194 | 7,119 | 6,600 |
| Astronomical Observatory | 169 | 14,986 | 34,200 |
| Gray Herbarium | 163 | 17,525 | 10,200 |
| Medical School | 940 | 29,409 | 51,700 |
| Dental School | 59 | 2,426 | 10,000 |
| Arnold Arboretum | 295 | 31,213 | 7,700 |
| Bussey Institution | 110 | 3,324 | 18,400 |
| Blue Hill Observatory | 49 | 7,965 | 15,300 |
| Total | 56,966 | | |
| Deduct transfers between College Library, Departmental, and Special Libraries | 562 | | |
| Totals | 56,404 | 1,242,161 | 561,500 |
| Total volumes and pamphlets | | | |
| College Library (incl. Special Libraries) | | 1,067,000 | |
| Departmental Libraries | | 736,000 | |
| Whole University Library | | 1,803,000 | |

Maps in sheets, in the College Library, 30,235.

Broadsides, programs, play-bills, leaflets, clippings, autographs, photographs, engravings, etc., are not included in the figures above, and it is impossible to give any enumeration of them. The collection of broadsides alone, American, English, French, etc., includes several thousand sheets.

The additions to the main collection have been:—

| RECEIVED BY COLLEGE LIBRARY | 1912-13 | 1913-14 | 1914-15 | 1915-16 | 1916-17 |
|---|---------|---------|---------|---------|---------|
| By purchase or exchange, vols. . . | 18,804 | 10,741 | 11,741 | 10,573 | 12,778 |
| “ “ “ “ pams. . . | 9,080 | 3,058 | 4,697 | 2,271 | 4,960 |
| By gift, vols. | 7,093 | 9,353 | 34,386 | 16,953 | 26,389 |
| “ “ pams. | 22,850 | 21,674 | 24,275 | 12,544 | 14,365 |
| By binding serials, vols. | 2,196 | 2,470 | 2,357 | 2,042 | 2,601 |
| Total volumes | 23,093 | 22,564 | 48,484 | 29,568 | 42,368 |
| “ pamphlets | 31,930 | 24,727 | 28,972 | 14,815 | 19,325 |
| Total received, vols. and pams. | 55,023 | 47,291 | 77,456 | 44,383 | 61,593 |
| Maps in sheets | 495 | 453 | 512 | 269 | 287 |
| Net growth (after making allowance for transfers, duplicates disposed of, etc.) | 22,286 | 22,239 | 45,481 | 29,581 |* |

* Owing to a change in method of counting the Library, the net increase in volumes on the shelves cannot be stated.

EXPENSES ON BOOK ACCOUNT FOR FIVE YEARS

| | 1912-13 | 1913-14 | 1914-15 | 1915-16 | 1916-17 |
|----------------------------------|----------|----------|----------|----------|----------|
| Central Library: | | | | | |
| From book funds | \$24,704 | \$32,056 | \$25,674 | \$20,997 | \$24,743 |
| From special gifts, etc. | 18,368 | 20,708 | 3,841 | 4,076 | 15,761 |
| Total | \$38,072 | \$52,764 | \$29,515 | \$25,073 | \$40,504 |
| Special libraries | 8,690 | 8,072 | 7,710 | 7,526 | 7,060 |
| Total | \$46,762 | \$60,836 | \$37,225 | \$32,599 | \$47,564 |

SPECIAL LIBRARIES

The present extent of these forty-one libraries is as follows: —

In the Widener Building

| | Volumes and Pamphlets |
|--|--------------------------|
| Bureau for Municipal Research. | |
| Room O..... | 6,493 |
| Business School. Rooms G, H, and I..... | 7,548 |
| Child Memorial. Room Z... | 5,742 |
| Classics. Room E..... | 5,272 |
| Economics. Lower R. R.... | 2,045 |
| French. Room W..... | 2,667 |
| German. Room Q..... | 1,674 |
| Graduate Economics. Room V | 410 |
| History. Lower R. R..... | 6,856 |
| Graduate History. Room K | 626 |
| Lowell Memorial. Room X. | 1,709 |
| Mathematics. Room T.... | 1,332 |
| Sanskrit. Room A..... | 942 |
| Statistical Lib. Room U ... | 247 |

Outside the Widener Building

| | |
|--|--------|
| Education. <i>Lawrence</i> | 10,081 |
| Military Science and Tactics. <i>University</i> | 184 |
| Chemical Lab. <i>Boylston</i> | 14,377 |
| Physical Lab. <i>Jefferson</i> | 713 |
| Botanical Lab. <i>Museum</i> | 1,929 |
| Geological Lab. <i>do</i> | 258 |
| Mineralogical Lab. <i>do</i> | 1,281 |
| Phys. Geog. Lab. <i>do</i> | 299 |

Outside the Widener Building

| | Volumes and Pamphlets |
|---|--------------------------|
| Zoölogical Lab. <i>Museum</i> | 439 |
| Engineering <i>do</i> .. | 494 |
| Students' Palaeontological Lab. <i>Museum</i> | 11 |
| Plant Physiological Labora- tory. <i>Museum</i> | 355 |
| Astronomical Lab..... | 97 |
| Philosophy. <i>Emerson</i> | 5,764 |
| Social Ethics. <i>do</i> | 10,431 |
| Semitic. <i>Semitic Museum</i> ... | 2,194 |
| Germanic Museum | 71 |
| Sanitary Engineering. <i>Pierce</i> . | 728 |
| Economic Geology <i>do</i> .. | 101 |
| Mining and Metallurgy. <i>Rotch</i> <i>Lab</i> | 545 |
| Music. <i>Music Building</i> | 2,794 |
| Fine Arts. <i>Fogg Museum</i> ... | 2,136 |
| Architecture. <i>Robinson</i> | 2,198 |
| Landscape Arch. <i>do</i> | 3,534 |
| Preachers' Lib. <i>Wadsworth</i> . | 118 |
| Phillips Brooks House Lib.... | 500 |
| Forestry. <i>Bussey Institution</i> | 132 |
| Total, Special Libraries... | 105,327 |
| Deduct for books on deposit from Central Library | 3,047 |
| | 102,280 |

CIRCULATION AND REFERENCE DEPARTMENT

The following table shows the use of books as recorded at the delivery desk and at the desks in the two larger reading rooms. There is no way of showing the unrecorded use of books in the reading rooms and in the stack.

| USE OF BOOKS | GOBBE HALL | | RANDALL HALL AND MASSACHUSETTS HALL | | | WIDENER MEMORIAL LIBRARY | |
|--|------------|---------|-------------------------------------|---------|---------|--------------------------|---------|
| | 1910-11 | 1911-12 | 1912-13 | 1913-14 | 1914-15 | 1915-16 | 1916-17 |
| Recorded at Loan Desk: | | | | | | | |
| 1. Lent for home use | 61,962 | 58,571 | 51,786 | 53,467 | 57,058 | 55,730 | 60,621 |
| 2. Reading room use | 26,803 | 24,815 | 21,250 | 28,736 | 25,219 | 45,415 | 54,233 |
| 3. Study use | | | | | | 1,254 | 1,598 |
| 4. Stall use | | | | | | 5,789 | 11,269 |
| Total | 88,765 | 83,386 | 73,036 | 82,203 | 82,277 | 108,188 | 127,721 |
| Overnight use of Reference Books: | | | | | | | |
| General reading room | 13,376 | 11,371 | 10,850 | 12,322 | 14,272 | 14,612 | 13,348 |
| Lower reading room | 17,125 | 14,685 | 16,318 | 14,186 | 12,986 | 6,332 | 5,421 |
| (formerly Harvard Hall) | | | | | | | |

GIFTS OF THE YEAR

SUMMARIZED FROM THE REPORT OF THE LIBRARIAN

In last year's report was recorded the great collection of English Civil War tracts and broadsides from the library of Frederick Lewis Gay, of the Class of 1878. In addition Mrs. Gay has now given to us many of the more valuable volumes from Mr. Gay's library — over 2200 in number and including Americana of the highest rarity and the productions of many New England ministers.

The library of the late Professor Münsterberg has been given to us by a number of his friends who united in purchasing it from his family. During the years of his residence in America Professor Münsterberg had bought freely both German and English books in many fields, especially on experimental and applied psychology, and had acquired many valuable and well bound sets of periodicals. The collection numbers some 2500 volumes, besides several hundred pamphlets, and will be divided between the College Library and the psychological library of the Department of Philosophy.

Mrs. Alonzo Rothschild has given us, as a memorial of her husband, his great Lincoln collection, comprising a thousand volumes and 1300 pamphlets. It covers in a general way the history of the Civil War period, the memoirs, biographies, and writings of public men, and contemporary publications on politics and slavery. The pamphlets include many privately printed items and articles taken from periodicals, and these are supplemented by a large number of newspaper clippings. The collection has been placed in the library room of the Historical Department (Widener K) where it will be accessible to graduate students.

From the Library of Dartmouth College, we have received some hundred and fifty volumes on German history (many of them relating to the history of Hesse), which that Library turned over to us on the ground that they would be more useful as part of an extensive collection such as ours (about 20,000 volumes and pamphlets) than in the smaller working collection of Dartmouth. It is thought that the books came originally from the Mondidier library.

From the library of the late Robert Darrah Jenks, '97, of Philadelphia, by bequest, his collection of books (185 volumes and pamphlets) relating to railroads — a subject in which he was particularly interested.

From the estate of Miss Sarah H. Adams of Boston, 175 volumes of English and American authors, many of them interesting from their associations and autographs, and pleasantly supplementing the books received the year before from her sister, Mrs. James T. Fields.

From the American Bible Society, at the request of Professor Edward C. Moore, over two hundred translations of the Bible (in whole or in part) into the less familiar languages.

From the British Colonial Office, in response to Mr. Heald's inquiries there last summer, 230 volumes of Colonial blue-books and other official publications of the Colonies. From the Royal Colonial Institute, an almost complete collection of its publications, including its Proceedings and "United Empire."

From the Argentine Commission to the Panama-Pacific International Exposition, nearly a hundred volumes, besides pamphlets and photographs relating to Argentina.

From Mr. Clarence Macdonald Warner of Boston, who has lately been named Curator of Canadian History and Literature in the Library, some four hundred pamphlets on Canadian affairs.

From Professor James Sturgis Pray, nearly a thousand volumes from his own library.

Through the Harvard Commission of Western History we have continued to receive valuable books, papers, and manuscripts, among the latter an interesting manuscript log of a voyage of the ship *Hancock* in the Pacific in 1798-1800, presented by Joseph Dorr, '83, of Boston.

From Commodore Thomas D. Griffin, U. S. N., of Annapolis, we have received the manuscript mathematical text-book written out by his grandfather, Samuel Griffin, of the Class of 1784, when he was a student in College. A similar mathematical manuscript, covering, like the other, arithmetic, geometry, dialling, surveying, and trigonometry, written out by Ephraim Eliot of the Class of 1780, has been received from the Misses Eliot of Cambridge, descendants of the author. Both show the character and extent of mathematical instruction of the time, and are evidence of the scarcity of text-books during the Revolution.

From Mrs. W. H. Forbes of Milton, a reproduction in bronze of the working model for the seated statue of Emerson in the Concord Public Library by Daniel C. French. The Emerson family have also given us the original manuscript of Emerson's "Threnody," "The World-Soul," "Initial Love," and "The Daemonic and the Celestial Love."

From Professor Palmer, a precious original pencil drawing on vellum of George Herbert.

Gifts of money amounting to \$12,742 were received during the year. A detailed list will be found in the Treasurer's Report.

Five new book funds established during the year add substantially to the permanent resources of the Library:—

1. The Peter Paul Francis Degrand fund, \$75,000, from his bequest "To the University at Cambridge, Mass., . . . the income of which is to be by them employed in French works and periodicals on the exact sciences and on Chemistry, Astronomy, and other sciences applied to the arts and to Navigation." Mr. Degrand was a Boston merchant of French birth, who died in 1855. His estate was subject to annuities, and the above fund has just come into the possession of the College.

2. Henry Weston Farnsworth Memorial — \$30,000, the gift of William Farnsworth, '77, of Boston, in memory of his son, Henry Weston Farnsworth, of the Class of 1912, the income to be used "*First*: for such repairs and replacements as may be necessary to keep the Farnsworth Room, its furniture and furnishings in constant good condition; *Second*: for the care of the books and the purchase of new books; *Third*: for any other expenses connected with the Room."

3. Frederic Hilborn Hall Memorial — \$5,000, the gift of Professor Edwin H. Hall of Cambridge, in memory of his son, Frederic Hilborn Hall, of the Class of 1910, "the income to be used for the purchase of books for the Library."

4. The James Jackson Lowell Memorial — \$20,000, the gift of Mrs. George Putnam of Boston, in memory of her brother, James Jackson Lowell, first scholar of the Class of 1858, who was killed at the battle of Glendale, July 30, 1862; the income to be used for the purchase of books for the College Library.

5. The B. Osgood Peirce Fund — \$1,000, the gift of Mrs. Peirce, in memory of her husband, Benjamin Osgood Peirce, of the Class of 1876, Hollis Professor of Mathematics and Natural Philosophy — "the income to be used for books on Mathematical Physics for the Library of Harvard University."

Besides the above, additions have been made by William R. Castle of \$900 to the Castle Fund, and by Mr. Shaw of \$1200 to the Robert Gould Shaw Fund.

In 1905 the Class of 1846 turned over to the College its Class Fund, then amounting to \$10,571, with the condition that on the death of the last surviving member of the Class the fund was to be added to the Francis James Child Memorial Fund. With the death of Dr. Abner Little Merrill, of Boston, this has now become available for the purchase of books for the Child Memorial Library. With the accumulated income of this fund, now amounting to \$18,000, the Child Memorial Fund reaches the sum of nearly \$30,000.

APPLETON CHAPEL AND PHILLIPS BROOKS HOUSE

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — The services of the University Chapel have continued as usual. The average attendance at thirty-four Sunday morning services, excluding vacation Sundays, was 559. The corresponding figure for the year 1915-16 was 540; for 1914-15, 511; for 1913-14, 444. There thus appears to have been a steady gain. The figures for the students show a normal increase about equivalent to that of the University as a whole. The number of officers of the University in attendance shows a small actual increase. The change in the number of men neither officers nor students is negligible. The number of women, however, has increased within four years by two-thirds. It is not certain how many of these are Radcliffe students. There is an interesting analysis of these statistics and discussion of the reasons for these characteristics of the growth of the Chapel congregation by the Chairman of the Chapel Committee, published in the annual report of the Phillips Brooks House Association.

Two hundred and fourteen services of daily morning prayers were held during the year with an average attendance of 93. The corresponding figure for the previous year was 103; for 1914-15, 110; for 1913-14, 120. The year last named was the year before the Freshman Dormitories were opened. The shrinkage toward the end of last year was very great and due directly to the hours of instruction and drill of the Reserve Officers' Training Corps. Nevertheless, it is certain that the Chapel attendance has been affected by the conditions of life in the Freshman Dormitories. Four years having now elapsed, that effect may be regarded as spent. The figures in the opening weeks of this year are distinctly better than those of last year, if one takes into account the diminished enrolment in the University.

The Sunday School for children of members of the Faculty and of the graduate schools, held in the Peabody Hall in the Brooks House, has been successful.

The Choir had its best year. On the other hand, at the opening of the University this fall, five-sixths of those who had been trained under Dr. Davison were found to have left for the war.

Services were held in the early summer for the Reserve Officers' Training Corps in the quadrangle of Smith Halls. This autumn a considerable part of the Naval Cadet School attends the Sunday service in a body. All services of the University and all privileges of the Phillips Brooks House are open to members of the Army and Navy.

Scarcely any portion of the University has felt the changes incident to the war more keenly than the organization and membership of the Phillips Brooks House Association and the associated societies. The year 1916-17 had been one of unusual success. By the first of June, however, all but four men connected with the cabinets of either the past or the coming year had entered upon some form of war service, and the enrolment of the various associations in the year upon which we have just entered is diminished in nearly the same measure with the University as a whole. In 1916-17 the societies enrolled actual paying members as follows:—

| | |
|--|-------|
| The Phillips Brooks House Association (direct) | 555 |
| The Harvard Y. M. C. A. | 98 |
| The Saint Paul's Society | 39 |
| The Saint Paul's Catholic Club | 105 |
| The Graduate Schools Society | 116 |
| The Law School Society | 183 |
| Total | 1,096 |

These societies contributed to the support of the work of the House \$3,461.85. The growth of the Graduate and Law School branches is one of the most noticeable facts of recent years. The Legal Aid Bureau conducted by the Law School Society has done a most useful work. The Association in the Harvard Medical School which coöperates with the Brooks House has made excellent progress and has extended its work into the Dental School. Three hundred and eighty-nine men participated in the work of the Social Service Committee in various institutions in Boston and the neighborhood. The Christian Association has been largely responsible for the devotional services at the House and for the prosecution of Bible study. The Harvard Mission reports that ten Harvard men have gone out during the year for some form of work in mission fields. Among these was the Rev. Artley Parson, long and intimately connected with the Saint Paul's Society. The Board of Preachers have to thank the Chapel Committee for their hearty and efficient coöperation in the religious services. The Graduate Secretary and many of those connected with the House were occupied practically all

summer in work related first to the Reserve Officers' Training Corps and then also to the United States Naval Radio School. A canteen was maintained in the camp at Ayer and aid rendered in another organized by ladies of Cambridge on the grounds of the Museum. The latter has now been transferred to a hut built by the National Y. M. C. A. back of Pierce Hall. Every effort has been made to meet the new conditions in the University arising out of the war.

EDWARD CALDWELL MOORE.

THE GRAY HERBARIUM

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — During the past academic year, in addition to the regular staff, the following persons were temporarily employed by the Gray Herbarium in special capacities: Drs. Sidney Fay Blake and Harold St. John, engaged chiefly in determinative work, *i. e.*, in the identification of plants received for study; Messrs. Oran Levi Raber and Frank Conklin Seymour, chiefly employed in the distribution of *inserendae*; Mr. Frederic Tracy Hubbard, in the identification of grasses, chiefly tropical; and Miss Helen E. Day, in bibliographical indexing.

The more noteworthy collections received have been as follows:

I. *By gift, in exchange, or for identification:*

From the New York Botanical Garden, 756 plants of the West Indies, chiefly from Jamaica, Cuba, and Isle of Pines; from the Arnold Arboretum, 401 plants of Alaska, collected by Miss Alice Eastwood, 209 plants of the western United States, collected by Mr. Ivar Tidestrom, and 40 herbaceous plants of China; from the California Academy of Sciences, 354 plants of western United States, chiefly from California; from Mr. Charles C. Deam, 157 plants of Indiana; from Professor E. W. D. Holway, 124 *Compositae* of Guatemala, sent for identification and including many new and rare species; from Mr. W. W. Jones, 135 plants of Utah, and 198 of California; from Miss Esther M. Flint, 623 plants from the herbarium of her father, the late William Francis Flint, including the now exceedingly rare *exsiccatae* of the White Mountains issued by Flint and Huntington; from the Botanical Department of the University of California, 214 plants of California and Mexico; from Professor George E. Nichols, 440 plants of Cape Breton Island; from Mr. G. S. Torrey, 358 plants of the Avalon Peninsula, Newfoundland; from the United States National Museum, 92 plants of Maryland and the District of Columbia, collected by Mr. W. R. Maxon, 117 plants of Argentina, collected by Mr. H. M. Curran, and 267 miscellaneous duplicates chiefly from the Rocky Mountain region.

II. *Acquired by purchase:*

From Dr. G. W. Stevens, 490 plants of Oklahoma; from Mr. C. A. Wenzel, 164 plants of Leyte, P. I.; from Mr. P. Jorgensen, 328

plants of Argentina; from Mr. Theodor Holm, 350 plants of Washington, D. C., and vicinity; from Mr. Camillo Schneider, 1811 plants of western China; from Miss J. P. Standley, 324 plants of Florida; from Professor A. A. Heller, 154 plants of California; from the Arnold Arboretum, 857 plants of China and 183 plants of Japan, collected by Mr. E. H. Wilson; from Dr. C. F. Millsbaugh, 161 plants of Yucatan, collected by Dr. G. F. Gaumer; from Dr. F. J. Smiley, 854 plants from the boreal flora of the Sierra Madre in California; from Professor D. L. Crawford, 264 plants of Nicaragua, collected by Mr. C. F. Baker; from Professor Charles T. Vorhies, 118 plants of the Navajo Reservation, Arizona.

III. *Received from field work done for the Gray Herbarium:*

Professor Fernald, with the able assistance of Mr. Bayard Long of the Philadelphia Academy of Natural Sciences, visited 34 townships in Maine and 1 in New Brunswick, collecting 10,011 plants, many representing extensions of range, hitherto unobserved varieties, and new species. Messrs. Fernald and Long gave particular attention to the saline and brackish tracts of the estuaries of the Maine coast but little explored and their collections add much to the knowledge of the highly interesting and until recently unsuspected differentiation of the florulae of these areas. Dr. J. A. Samuels was employed to collect plants in Dutch Guiana, preparing 7 sets of the vascular species. His collection numbers about 2300 specimens and includes many not previously represented in the Gray Herbarium. It has been identified by the Curator with the aid of Dr. S. F. Blake. Mrs. O. P. Phelps was again employed to continue her collection for the Gray Herbarium in the northernmost parts of New York State and during the year obtained 1519 specimens. Mrs. James M. Spencer was commissioned to collect in the vicinity of San Diego, California, and secured for the Gray Herbarium 848 plants of southern California. Mr. H. M. Curran, a tropical forester, and Mr. Miles Haman were commissioned to collect in Curaçao, from which 1256 plants were received, and in northern Venezuela (chiefly on the Peninsula of Paraguana), where 1827 plants were obtained. These collections were in large part of ligneous and lignescent species. They contain much duplicate material which will be valuable in exchange. Mr. Frank C. Seymour was commissioned to make a botanical collection on Martha's Vineyard and during the summer of 1916 secured 2400 specimens.

The entire number of specimens received from all sources has been 31,492. There have been added to the organized portion of the Herbarium 11,082 sheets of mounted specimens, while 104

sheets (lacking adequate or trustworthy labels) have been removed. At the end of the year the number of sheets in the organized herbarium was 565,810. The number of volumes added to the library by purchase and gift has been 163 and through the binding of pamphlets 1034. Fifteen duplicates have been removed; making the net accession of volumes 1282. The total number of volumes in the library June 30, 1917, was 17,525. The number of pamphlets added during the year was 287. Those removed for binding and on account of duplication were 1146. The entire number of pamphlets in the library June 30, 1917, was 10,168. In the course of the year four more issues of the Card Index of New Genera, Species and Varieties of American Plants were issued, together including 5,918 cards and bringing the total number of cards in the Index to 138,444.

During the spring of 1917 extensive and valuable duplicate material, which had been accumulating for several years, was sorted, labeled, and distributed. In connection with this task the second and third centuries of the *Exsiccatae Grayanae* were completed and issued. This official series of exchange material sent out from the establishment was begun about 17 years ago and is briefly described in the reports of 1900-1903. It is issued in editions of 100 and therefore each century involves the collecting, drying, critical identification, and detailed labeling of 10,000 specimens. The two centuries sent out this year had been in preparation for some 15 years and included more than 40 types of new species and varieties, each of which had been secured in adequate quantity for the purpose. In the collection of this material the Herbarium has had the generous coöperation of no less than 35 botanists, both professional and amateur, in various parts of New England. Altogether 38,307 duplicate specimens were sent out, all duly labeled and (with rare exceptions) fully identified. These were distributed to fifty-eight establishments and exchange correspondents in America. In addition 21,410 duplicate specimens were organized for distribution to trans-Atlantic correspondents as soon as safe transportation is again available.

The Visiting Committee again issued its annual circular in the interest of the Herbarium and 99 gifts for present use were received, as recorded in the report of the Treasurer. This aid has been of very great importance to the Herbarium, particularly in permitting field work, publication, and the employment of skilled draftsmanship which could not otherwise have been afforded. One gift for further endowment was received, namely, from Mr. Emile F.

Williams, Secretary of the Visiting Committee, \$100, to be added to the Gray Memorial Fund.

Recent congestion in journals and proceedings of scientific societies has caused difficulty in securing prompt and satisfactory publication for technical matter. Therefore, it has seemed best for the Herbarium to publish independently some of its octavo Contributions. In this way and with the services of the Harvard University Press Nos. 47 and 48 were issued during the year. The series of quarto Memoirs, mentioned in the previous report, has also been begun, the first volume having been issued in February and consisting of an extensively illustrated Monograph of the Genus *Brickellia* by the Curator. Altogether 24 papers have been published by the staff, as recorded in the *Harvard University Gazette*.

B. L. ROBINSON, *Curator*.

THE BOTANIC GARDEN

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — As Director, I have the honor to submit my eighth annual report on the progress and condition of the Botanic Garden. This report covers the year ending June 30th, 1917.

Throughout the year conditions favorable to plants in the open ground were experienced. The spring, however, was an exceptionally late one, and many early blooming species were extraordinarily retarded.

Supplies of specimens for laboratory exercises and research purposes have been furnished to members of the Botanical Department in Cambridge, to the Bussey Institution of Applied Biology, to the School of Tropical Medicine, and to Radcliffe College.

Students in the elementary botany course and in the School of Landscape Architecture have used the Garden in the prosecution of their work.

The Garden laboratory has been in constant use by Professor Osterhout and his assistants for research work in botany.

In connection with the gardening interests stimulated by the war carefully prepared sets of economic seeds were arranged for display and distributed. These sets included varieties of food plants adapted to cultivation in the neighborhood of Boston.

Instruction in fibre extraction and rope making was given to a detachment of Boy Scouts early in the spring. Instruction of this type might well be encouraged as a function of a botanic garden.

Throughout the growing season of 1917 the economic seeds that constitute a part of the imports received by the commercial houses of Boston were cultivated to test the authenticity of their declared or supposed botanical origin. This work, which properly forms a part of the activities of a botanical establishment such as ours, must be done from time to time to authenticate specimens destined to be preserved in collections of economic products used for purposes of comparison and instruction.

From our cultivated species of fibre yielding plants control specimens of fibres have been extracted which constitute a very valuable addition to the permanent collection of botanical raw products. These specimens are of value because they are derived

from correctly identified species. In fibre investigations, which are generally difficult on account of numerous uncertainties as to the original identification of the source plants, these control specimens furnish materials that are reliable in descriptive, comparative or analytical work and in research.

A new type of label which has proved very acceptable has been adopted for the out-door garden. These labels are sufficiently large to be easily read and can be so firmly driven into the ground that they are not easily lifted and misplaced by the careless visitor.

For several years plans have been under consideration that demand a rearrangement of the hardy plants in the Garden in conformity with the latest and most approved system of botanical taxonomy. Such a rearrangement would necessitate the transplanting of many large specimens that would undoubtedly suffer if disturbed and would entail a large expenditure of money for labor. After serious consideration of every detail of the proposed plans it has been deemed wise to leave the main garden untouched, at least for the present, and to replant the long border below the terrace in such a manner that it will, for teaching purposes, serve as a clear illustration of the so-called Engler system of classification.

An important addition to the collections has been received from Dr. J. N. Rose of the Carnegie Institution of Washington, who sent to the Botanic Garden the orchids gathered on a recent expedition to Venezuela. Among the species that have flowered several have proved to be noteworthy acquisitions.

At present the collections of the Garden are diverse in character and represent many of the chief families of phanerogams and ferns; many genera and several thousand species. In other words, the Garden is, more or less, a museum of living plants, systematically arranged, from which specimens for study and demonstrations may be obtained by the members of the teaching staff of the Botanical Department. To the layman it may seem that any florist's collection would supply this material at a very low cost compared with the expenditures made for the upkeep of the Garden, but this is far from the truth, because our collections are botanical, not horticultural. Furthermore, the demands on the Garden are frequently for rare and unusual species which have been obtained from original sources, often with difficulty, and are not represented in the offerings of nurserymen.

With the growing tendency toward specialization exhibited by commercial horticulturists, and with the continued elimination of the less showy plants from the collections of the amateur, the

need for botanic gardens becomes more and more evident. Notwithstanding the fact that the original significance of a botanic garden as a repository of medicinal plants has become negligible, botanic gardens are on the increase and their service in connection with herbaria and botanical laboratories is becoming more and more necessary. There is no really satisfactory substitute for the living plant, either in the herbarium or in the botanical laboratory, and while this remains true botanic gardens with representative collections rich in species must be at hand.

The Director has placed at the service of the Botanical Raw Products Committee of the National Research Council his collection of economic botanical material and catalogue of economic plants. These are established at the Bussey Institution, where the committee has its headquarters, and are being used in connection with war work of the National Research Council which is acting as the department of science and research of the Council of National Defence.

OAKES AMES, *Director*.

THE BOTANICAL MUSEUM

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — I have the honor of presenting the following report on the condition of the Botanical Museum during the academic year 1916-17.

During the year it has been impossible to obtain any specimens from our correspondents in Central and South America. The lack of transportation facilities to and from those ports has embarrassed us greatly for more than twenty months, and we see no immediate prospect of improvement in these exchanges. The war has completely cut off all of our exchanges with Europe and the East.

It is well known that many plant products are injured by exposure to air and light. Such perishable specimens are ordinarily renewed in our cases every few months. But under war conditions we cannot replace our stock of such illustrations, and we have therefore been compelled to resort to unusual and costly precautionary measures for their preservation. It is still very doubtful whether we ought not to withdraw from our exhibition cases a large number of interesting specimens which are likely to be permanently injured. We are watching carefully the effect of reduced exposure, and we shall not venture to incur the great risk of damaging the specimens.

The accessions to the collections have been fewer than usual. To Edward Bowditch, Esq., we are indebted for some fine woods from the Philippines. These specimens have been installed in cases in the long exhibition room, where they attract deserved attention for their extraordinary beauty and capabilities.

From Professor Oakes Ames we have received specimens of value from his large collection of economic plant products now in the Bussey Institution. Professor Ames has been generous in his offer to supply our cases with much of the material now accumulating in Forest Hills as a result of his well-directed energy on the U. S. Board of Research, studying raw vegetable products. He has had remarkable success in bringing together new substances of possible usefulness in home life and the arts, and he is sparing no pains to have these thoroughly examined and tested. It is pleasant to note the harmony which exists between all the different parts of the botanical establishment.

It is with great regret that I am obliged to report that we have not had any news from Mr. Rudolph Blaschka, the artist naturalist of the Museum, for more than two years. When he last wrote, he stated that he had finished the greater part of the series illustrating the relations of flowers to insects, and that these models were ready for shipment. This series concludes the exhibit as planned. Whether we can ever receive these final illustrations is extremely doubtful. Without them the series is not very incomplete; that is to say, practically all the typical modes of pollination by insects are exhibited.

We had dreamed that at the conclusion of his construction of flower models, Mr. Blaschka would, by the pecuniary support of the University Museum, resume the study and preparation of models of marine invertebrata, a work which had engaged his artistic energies before he began the modelling of flowers. At the earliest practicable moment we shall place ourselves in touch with the artist.

In the last report, mention was made of a plan to remove all of the elementary instruction in Botany to rooms in Pierce Hall, thus leaving space in the University Museum for the display of economic collections now stored in our lower rooms. But the assignment by the Corporation of Pierce Hall to the use of naval students has completely blocked the scheme for the present.

It is pleasant to report that the University still enjoys the services of Dr. Robert T. Jackson in the care of the Agassiz collection of fossil plants. He has shown great skill in the arrangement and display of the specimens.

The current expenses of the Museum have been met by the generosity of friends. These gifts are mentioned in the Treasurer's Report; but concerning the following an explanatory word is perhaps demanded. The gift by Walter Hunnewell, Esq., was made towards defraying the cost of an expedition to Central America for collecting purposes. The expedition has been deferred. The gift by Miss Minns was without any restriction, but it is intended to employ it for an object to which she has long devoted her thoughts, namely, the utilization of plant products in common life. The anonymous donor who has given annually a large sum has left the Curator at liberty to employ the amount for current expenses and for additions to the collection.

The Curator thanks the Overseers' Committee on the Botanical Museum for valuable counsel and assistance during the year.

GEORGE LINCOLN GOODALE.

THE ARNOLD ARBORETUM

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — I have the honor to submit the following report on the progress and condition of the Arnold Arboretum during the year ending June 30, 1917.

In August death deprived the Arboretum of the services of Jackson Dawson who from its first days had been its Superintendent. Dawson had a remarkable knowledge of plants and unequalled skill in their propagation. A large part of the plants now growing in the Arboretum were raised by him from seeds, and in the early days of the Arboretum he raised here thousands of plants for the Harvard Botanic Garden at Cambridge. All the Chinese and Japanese plants introduced by the Arboretum were raised by him, and the fact that in the last sixteen years of his life he raised seedlings of 3367 numbers of American hawthorns shows his industry. Dawson produced here several important hybrid roses, and with more time at his disposal he might have become one of the world's great plant breeders. Dawson brought to the Arboretum industry, intelligence, imagination and entire devotion, and much of its success is due to his labors.

During the year 157 specimens of woody plants in 55 genera have been transferred from the nurseries to the permanent plantations. Although the winter was unusually severe on many plants, no serious losses are reported, and on the whole the collections are in a satisfactory condition.

Not much is known here of the flora of Korea, and only a few Korean plants are growing in the Arboretum, but these have proved so successful that it has seemed desirable to undertake a systematic exploration of that country for the purpose of determining the distribution northward of Chinese trees and of introducing plants into this country from a region with climatic conditions as severe as those of New England. To carry out this plan Mr. Wilson left the Arboretum in January for his fifth journey in eastern Asia. On reaching Japan he first visited the Liukiu and Bonin Islands, to study the little known floras of these groups and to secure specimens and photographs of the peculiar trees which do not grow elsewhere. Returning from the Bonin Islands he went to Seoul and from there into the virgin forests of northern Korea, crossing

the Chang-pai-shan, thus reaching the upper waters of the Yalu River, and penetrating into a region most of which had not before been visited by a foreigner.

The botanical exploration of the Missouri-Texas region undertaken in connection with the Missouri Botanical Garden has been continued during the year with good results. Mr. T. G. Harbison, who has been collecting for the Arboretum in the southeastern states for several years, has continued his work during the year, principally in North and South Carolina, Georgia, and northern Florida.

The library now contains 31,213 bound volumes and 7718 pamphlets, 295 volumes and 187 pamphlets having been added during the year. The printing of the second volume of the library catalogue in which the books are arranged according to subjects is nearly finished and the volume will appear in a few months.

During the year 10,417 sheets have been added to the herbarium, and 11,554 duplicate specimens have been distributed.

The interchange of plants and seeds with other horticultural and botanical establishments has been continued during the year. 14,041 plants, including grafts and cuttings, and 555 packets of seeds have been distributed as follows: To the United States, 12,880 plants and 356 packets of seeds; to Great Britain, 1161 plants and 138 packets of seeds; to the continent of Europe, 47 packets of seeds; to South Africa, 10 packets of seeds; to New Zealand, 4 packets of seeds. There have been received 1254 plants and 115 packets of seeds as follows: From the United States, 756 plants and 87 packets of seeds; from Great Britain, 66 plants and 2 packets of seeds; from France, 418 plants; from Japan, 12 plants and 26 packets of seeds; from Canada, 2 plants.

The usual instruction in dendrology has been given in the Arboretum by Assistant Professor J. G. Jack, who from May to June held weekly field meetings for special students, principally teachers.

The third and final part of the third and last volume of *Plantae Wilsonianae* appeared in January. In these volumes are described the plants collected by Wilson in China for the Arboretum, with the elaboration of several important genera of trees and shrubs.

During the year the Arboretum has published *The Conifers and Tazads of Japan* by E. H. Wilson. This work is based on Wilson's study of these trees as they grow in their native forests, and is illustrated by 59 plates made from photographs taken by him.

The fifth and last volume of the *Bradley Bibliography* is nearly printed and will appear in the course of a few months.

During the year seventeen numbers of the *Bulletin of Popular Information* have been issued.

During the year the endowment of the Arboretum has been substantially increased by the generosity of a number of its friends. The work of raising this money was undertaken voluntarily by Mr. Henry S. Hunnewell, assisted by Mr. William C. Endicott, and to them the Arboretum is particularly indebted. It is indebted, too, to the Trustees of the Massachusetts Society for Promoting Agriculture, and to many other friends who have aided me in increasing the income of the Arboretum, for without their help it would be impossible to maintain this establishment and carry on the scientific activities which have made it an important station for increasing the knowledge of plants.

C. S. SARGENT.

THE CHEMICAL LABORATORY

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — The enrolment in courses in Chemistry last year was two per cent less than that of our maximum enrolment of the previous year. The number of men engaged in research was thirty-seven, the largest in our history.

The high cost of chemical apparatus and of chemicals, which we have steadfastly hoped would decrease as the many new domestic plants came into operation, has nevertheless continued, and has resulted in very high charges to our students for breakage and for special chemicals. Another factor which has contributed to this same result has been the expense entailed by the constant repairs upon our old and dilapidated Boylston Hall.

The investigations carried out during the past year by members of the Division and their students were as follows: —

Professor Michael continued his studies on the theory of organic compounds, and the interpretation of organic reactions.

Professor Richards showed that one thousand crystallizations of the nitrate of lead from radioactive sources did not effect any perceptible separation of the isotopes. He also studied the solubility of salt as a means of determining temperatures, the effect of dissolved gases on the melting point of benzene, and surface tension. In collaboration with Professor H. N. Davis of the Department of Physics, further advance was made in the establishment of an exact thermometric scale.

Professor Kohler conducted a number of researches on the following general subjects: — aliphatic and alicyclic nitro compounds; ketonic derivatives of furanes; the relation between ethylenic and cyclopropane derivatives.

Professor Baxter redetermined the atomic weights of cadmium and zinc by electrolytic methods. He also investigated the gas content of the purest silver and iodine with reference to their use as standards for atomic weights, the occlusion of lead nitrate by lead sulphate, the estimation of minute amounts of cadmium in brass, and the relative combining weights of arsenic trioxide and iodine.

Assistant Professor Henderson commenced a study of certain of the physico-chemical problems of the proteins, especially hemo-

globin. He continued his investigations of the acid-base equilibrium of sea water, and his theoretical studies upon the relation of the organism to its environment.

Assistant Professor Forbes investigated the temperature coefficient of the distribution ratio; the effect of acid concentration upon photochemical oxidation; equilibria in solutions involving two chlorides of iodine; the relation between ferric iodide, ferrous iodide, and iodine at moderately high temperatures; and the electromotive forces of solutions containing ferric, ferrous, mercuric, and mercurous ions.

Assistant Professor Jones studied the equilibrium between bromine and potassium bromide in aqueous solution, and the electrochemical properties of thallium and thallium iodide.

Dr. Conant studied the action of phosphorus trichloride on aldehydes and ketones; the synthesis of a cyclopropane ketone; and the replacement of one halogen by another in organic compounds.

I continued my studies of the rhodium ammines, the chlorides of chromium, the temperature coefficient of electrodes, and the specific heats of aqueous solutions. I began the study of the specific heats of fused salts.

ARTHUR B. LAMB, *Director*.

JEFFERSON PHYSICAL LABORATORY

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR,— About thirty persons were engaged in research in the Physics Department during the past year. Of these, fifteen were on the teaching staff of the University and about the same number were students engaged in work looking toward the Ph.D. degree. Many of the investigations which were in progress have now been interrupted, and it is difficult to say when they will be completed or even resumed, but a large amount of work was carried through, so that the results have been or soon will be published.

In view of the present financial condition of the Physics Department and of the University, it will perhaps be advisable to delay the issue of the next bound volume of the *Contributions* until it can include the work of 1917 as well as that of 1916.

The regular teaching work of the Department has proceeded during the year with no changes that require comment.

The Friday Conferences, to which Professor Lyman made reference in our last annual report, were continued during the year 1916-17 with great profit. Among those outside the Department of Physics who have addressed us, greatly to our advantage, either at the Friday Conferences or at the Monday Colloquium, were Professor George D. Birkhoff, of the Department of Mathematics, who gave a series of lectures on the "Integral Equations in their Relation to Mathematical Physics"; Professor C. A. Adams, of the Department of Electrical Engineering, who gave a series on "Dynamo Design Perspective"; Professor E. B. Wilson, of the Massachusetts Institute of Technology, who gave a series on "Gravitation"; Dr. Langmuir, of the General Electric Company, who spoke twice on "The Constitution and Fundamental Properties of Liquids"; and Professor Tolman, of the University of Illinois, who discussed "The Principle of Similitude."

EDWIN H. HALL, *Acting Director.*

THE CRUFT LABORATORY

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — During the year 1916-17, the ordinary academic activities were pursued up to the time of the entrance of the United States into war. Important researches were made by Dr. Chaffee, Mr. R. F. Field, Mr. Ernest Flammer, Lieutenant Commander Nishizaki, and other students of the University.

The facilities of the Laboratory were also frequently made use of by graduates and former students in connection with commercial undertakings engaged in by them after leaving college. Certain investigations which it was thought might be of use in national defence were also pursued by the instructors and students. Specific accounts of these researches are not advisable at the present time, so that the volume of published material from the Laboratory is smaller than in previous years.

Immediately upon the declaration of war by the United States, all of the activities of the Laboratory were directed toward military ends. The instructors and several advanced students took up special experiments in connection with war problems.

The apparatus of the Laboratory was put into a condition to be used as a signal post if required. The Navy accepted an invitation to establish a Radio Training School at the Laboratory, and later expanded this school to provide training for the radiotelegraphic enlistment of the entire United States.

At about the same time, night and day classes were started for men enlisted and intending to enlist in the Signal Corps of the Army. In these two schools — the Signal Corps School and the Navy School — a considerable number of men were prepared and transferred to active duty, even in the first two or three months of the war.

The Naval Radio School by the end of the summer has grown to more than a thousand men, has equipped many stations with radiotelegraphic personnel, and is still expanding.

Apart from the present service of the Laboratory, it is encouraging to note also that some of the students of former years are now

holding important posts based on special qualifications obtained, to some extent, by study here.

The capacity of the Laboratory to serve even in minor part, in the present emergency, is cause for renewed gratitude to the donors of the building and to the University administration for a generous support.

G. W. PIERCE, *Director*.

THE PSYCHOLOGICAL LABORATORY

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR,— The usual courses related to experimental psychology were given during the past year, and were well attended. The death of Professor Münsterberg necessitated some changes in the instructors of the various courses. Professor Yerkes assumed charge of the laboratory until the end of the academic year. Dr. Troland gave the advanced course, the Acting Director, who was announced for that course, giving Professor Münsterberg's elementary course. Special mention should be made of Professor Holt's course in the Psychology of Behavior, which showed a considerable increase in attendance.

The investigations in human psychology carried on during the year were as follows:— Dr. P. F. Swindle made a study of the after-images of musical tones. Dr. S. C. Pepper investigated the effect of prolonged experience of color combinations upon the aesthetic judgment. Dr. H. E. Burt analyzed the sense of equilibrium with special reference to aviators. Mr. J. E. Anderson completed his three years' investigation of the effect of mental and physical work upon the vaso-motor system. Mr. S. L. Pressey completed his intensive study of the effect of various colors and light intensities upon mental and physical work. Mr. K. E. Appel made a preliminary study for the investigation of certain optical illusions. Mr. R. A. Cutting perfected an instrument for the investigation of the mutual interference of will impulses. Mr. A. Ohlson started an investigation of the perception of time under various conditions. Mr. P. D. Stout made a short study of the perception of words. Mr. C. H. Woolbert investigated various psychological factors of public speaking. Mr. R. E. Tulloss completed an instrument for an investigation of the learning curve with special reference to typewriting and wireless telegraphy. Mr. F. H. Allport continued his investigation of social influences until he left for military service.

Mr. W. W. Everett, under Professor Holt's direction, studied the relation of eye movements and will impulses to stereoscopic vision. Under Dr. Troland's guidance, Mr. Gardner Murphy studied the psychology of the telepathic experiment, and Mr. C. P. Richter constructed an apparatus for generating Charpentier's

bands with stimuli of variable and known intensity. Dr. Troland constructed several very useful apparatus, two of which are for optical experiments, and one for controlling and recording choice-reaction tests.

Toward the end of the year, Drs. Burt and Troland, with the coöperation of Dr. Miles of the Carnegie Nutrition Laboratory, planned and applied a series of tests for the selection of aviators.

A number of investigations in animal psychology were made under the supervision of Professor Yerkes. Mr. D. M. Calley made a study of the modifiability of behavior in *Tenebrio molitor*. Mr. J. D. Dodson finished a study of the relative values of reward and punishment in habit formation. Mr. N. Feinberg examined the characteristics of individuality in the cat. Mr. J. P. Hettwer investigated the relations of the modification of behavior to the nervous system in *Allobophora foetida*. Several investigations were made in the Psychopathic Hospital in connection with Professor Yerkes' course. Miss Elizabeth Lord and Mr. I. K. Moyse studied various applications of the point scale. The formation of a point scale for adults was a new contribution. Mr. D. M. Calley made a correlation of psychological and sociological measurements, and Mr. S. L. Pressey investigated the means of detecting and measuring mental deterioration as contrasted with primary amentia.

The laboratory work in educational psychology has, under Professor Dearborn, as in previous years, been employed chiefly in connection with experimental work in the public schools, and for the demonstration of experiments in the introductory course in educational psychology. Mr. E. M. Chamberlin completed an extensive series of experiments, the results of which were presented in a thesis entitled "An Experimental Study of Formal Discipline," and submitted in partial fulfilment of the requirements for the degree of doctor of philosophy in the Division of Education. A survey and experimental study of progress in elementary school subjects, in which use was made of apparatus and experimental methods developed in this Laboratory, was conducted in the training departments of the State Normal School of Missouri for the Carnegie Foundation for the Advancement of Teaching. Messrs. H. B. Cummings, L. P. Damon, E. A. Lincoln, C. A. Puckett and E. A. Shaw participated in this study.

HERBERT S. LANGFELD, *Acting Director.*

THE OBSERVATORY

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — The policy of the Harvard Observatory may be stated to consist in advancing Astronomy in every possible way, independently of local conditions, or personal considerations. This will involve restoring the friendly international relations which proved so valuable a few years ago. As illustrations of coöperation, or "team work," in progress here, may be mentioned the Durchmusterung of Kapteyn's Selected Areas; the coöperation of the Yale, Princeton, and Harvard Observatories in determining the positions of the Moon by photography; the aid of the Association of Variable Star Observers in observing variables when bright, and when faint, that of Professor Mitchell and Professor Wilson; the courtesy of Dr. Shapley in furnishing photographs of Messier 15 with the 60-inch Mount Wilson Telescope; Professor Plaskett's offer to supply photographs with the 72-inch Telescope for measuring the brightness of very faint stars. To all of the astronomers who have thus coöperated with us our best thanks are due for their liberal and unselfish aid. We have endeavored to reciprocate by furnishing material from our photographs, when desired. The class of spectrum of 23,760 stars has been furnished to astronomers in Denmark, England, France, Germany, Holland, Italy, and the United States.

The principal investigations undertaken here extend over long periods of time, and have accordingly been continued as in previous years. The object is to furnish a large amount of material which may prove useful in studying the laws of the universe. Great care is exercised in securing the highest efficiency in this work. In one investigation, a saving of one minute in the identification of each star effects a saving of two years in the time of one assistant.

Grateful acknowledgment is made of the generous contributions of Mr. George R. Agassiz and Mrs. Charles S. Hinchman, thus materially extending the work of the Observatory.

On the fortieth anniversary of my appointment as Director, the sum of \$12,359.13, from one hundred and twenty-two donors from fifteen states, was presented to the Observatory to establish a Fellowship bearing my name. An opportunity is thus provided by which a woman may devote her entire time to astronomical re-

search. My pleasure in the increased aid thus rendered was enhanced by the graceful form of the presentation.

HENRY DRAPER MEMORIAL

Good progress has been made with the Henry Draper Catalogue under the supervision of Miss Cannon. The classification of the spectra is complete, and has been entered on 242,093 cards, relating to about 223,000 stars. Copy has been written for the printer for zero to eighteen hours, although additional facts are still to be entered on it. The first two hours of right ascension have been sent to the printer, and two and three hours, completing H. A. 91, are now ready. During the year, 41 spectra have been found to be composite, 8 spectra of variables of short period have been shown to vary, 4 new variables have been discovered, and 2 stars having the hydrogen lines bright. In addition, 21 new variables have been discovered, all but two from the photographic plates.

The photographic observations at Cambridge have continued under the supervision of Professor King. The number of plates taken with the 24-inch Reflector is 204, making 1,930, in all; with the 16-inch Metcalf Telescope, 2,374, making 13,629, in all; with the 10-inch Metcalf Telescope, 768, making 1,012, in all; with the 1-inch Cooke Anastigmat, 1,261, making 19,220, in all; with the 0.5-inch Voigtländer, 1,134, making 16,274, in all. The total number of plates exposed was 7,761, of which 6,741 were photographs of the stars. Adding to these the plates taken at Arequipa, the total number of plates taken is approximately 262,962, besides 28,846 photographic copies, enlargements, etc. The number of plates taken for determining the position of the Moon was 194, making 835, in all. During the Lunar Eclipse of January 7, 1917, 19 plates were taken. Asteroids of the tenth magnitude, and brighter, are photographed, systematically, with the 10-inch Metcalf Telescope to determine the brightness and variability, if any. Good progress has been made in taking out-of-focus photographs of the stars and other luminous objects, with yellow light. Interesting results are obtained by enlarging stellar spectra and photographing them through a photographic wedge. The intensity of rays of different wave lengths is thus shown.

BOYDEN DEPARTMENT

The Arequipa Station continued under the charge of Mr. F. E. Hinkley until May 1, 1917, since then Mr. L. C. Blanchard has occupied this position. As he was alone, the amount of work ac-

complished is remarkable, especially as through a misunderstanding the supply of plates was exhausted for several weeks. The number of plates taken with the 24-inch Bruce Telescope is 146, making 11,722, in all; with the 13-inch Boyden, 23, making 13,106, in all; with the 8-inch Bache, 3,075, making 51,637, in all; with the 1-inch Cooke Anastigmat, 1,089, making 13,629, in all. The total number of photographs of the stars is 5,077. The instruments have been kept in good condition without outside assistance. The residence is receiving much needed repairs. The other buildings and grounds are in good condition except that the former require some painting.

The Mandeville Station in Jamaica has continued under the direction of Professor W. H. Pickering. Some of the more important investigations conducted are the following:—The color of the Sun, stars, and planets by means of a color scale. A selection of the sixty finest objects in the sky. A study of the transparency of our atmosphere, showing that the most southern star readily visible to the naked eye from Mandeville is γ Volantis, magnitude 3.7, declination $-70^{\circ}.3$, maximum altitude $1^{\circ}.7$. A study of the shifting white areas on the summit of the central peaks, and on the inner rim of the lunar crater Theophilus. These were attributed severally to snow and clouds. A compilation and study of the results secured at the past opposition by the various members of the "Associated Observers of Mars." Report No. 17 on Mars. An investigation of the Orion nebula, indicating that its distance is a little over 6,000 light years. The measurement of the changing forms of Jupiter's satellites.

BLUE HILL METEOROLOGICAL OBSERVATORY

The observational and routine work of the Observatory have been carried on without interruption. Continuous records of the actual and sensible temperature, pressure, humidity, wind direction and velocity, sunshine, night cloudiness, rainfall, snowfall, and evaporation have been obtained. A summary of the data was published in H. A. 83, Part 1. In addition to the usual ten tables of mean values and extremes, the volume contains three special articles. These are "The Winds of Boston and Vicinity," Part 2, which is probably the most detailed discussion of the winds of any locality in the United States thus far published. The subject is one of ever increasing value, and the data must be of prime importance in connection with trans-Atlantic aviation. Parts 1 and 2 together make a valuable supplement to the book of Professor

Rotch published in 1911, and which is still the only volume on Charts of the Atmosphere for Aviators and Aeronauts which is available. In Part 1, the duration of the wind from different directions, the different structures, such as prevailing westerlies, sea-breeze, sea-turn, were discussed; also the maximum surface velocities and the relation of winds to precipitation areas. In Part 2, the general circulation, the relative duration of east and west winds, theories of cyclonic origin, and the inadequacy of present theories to support observed facts are given at length.

The second paper in H. A. 83 discusses the need of scientific units in Aerography. Some discussion of the various temperature scales is given with arguments favoring a proposed new absolute scale.

The third paper is on the Ice Saints by Waldo E. Forbes. In this paper Mr. Forbes uses the Rodman records which go back to 1812, and a large number of long range European records. It is the most exhaustive study of these cold periods occurring in Europe about May 10 which has yet been made.

PHOTOGRAPHIC MAGNITUDES

The determination of photographic magnitudes on the international scale has continued under the supervision of Miss Leavitt. Series of twelve plates each are ordinarily taken of which the first, seventh, and twelfth are on the Pole, or on the other Harvard Standard Regions. The number of series taken at Cambridge with the 16-inch Metcalf Telescope is 116 with blue light, and 38 with yellow light. The corresponding numbers taken at Arequipa with the 8-inch Bache Telescope are 210 with blue, and 65 with yellow, light. Magnitudes and positions of sequences of stars in each of the fifty Harvard Standard Regions are given in H. A. 71. Similar sequences of the standard regions of the Carte du Ciel and Kapteyn Selected Areas are nearly completed for the northern stars, and are in progress for the southern regions. Catalogues of the stars in the Harvard Standard Regions are now being prepared. They will give the positions, photographic magnitudes, photo-visual magnitudes, and class of spectrum for stars in regions 4° square, of the eleventh magnitude, and brighter. The number of estimates of magnitude made during the year is about 85,000.

VARIABLE STARS

Professor Bailey has continued his work on the variable stars in clusters. The discussion of the variables in ω Centauri, Messier

3, and Messier 5 have already been published. By the courtesy of Dr. Harlow Shapley, an admirable series of photographs of Messier 15, which he had taken with the 60-inch Mount Wilson Telescope, were available, in addition to photographs made during the last twenty years in Cambridge and Arequipa. The results so far obtained in Messier 15 show considerable resemblance to those in ω Centauri and Messier 5, where two or more types of variables were found. In Messier 3, with one exception, only the "cluster type" occurs. In Messier 5, eight stars were found whose mean period was half that of the remaining variables in the cluster. This was explained on the theory of duplicity, which accounts satisfactorily for the length of period and the form of light curve. A somewhat similar condition is found in Messier 15, but in this cluster the number of variables of each type is about equal, and the mean period of one group appears to be somewhat more than half that of the other group.

Numerous observations of variable stars have been made by Mr. Leon Campbell with the 12-inch Polar Telescope and 15-inch Equatorial. With these instruments, he has made 1,526 estimates of variables, mainly when they were too faint to be observed with smaller instruments. He has made 15,240 settings with the polarizing photometers attached to the 15-inch Equatorial, mainly of the planets and asteroids suspected or certainly variable, and of the eclipses of Jupiter's satellites. Eunomia (15) was observed from October to March, 3,920 settings having been secured. The variability of Uranus has been established from 1,792 observations, and that of Antigone (129) has also been confirmed. Iris (7) has been observed through several months. Variations were also found in the planets Neptune and Juno (3), but the nature of their variations had not as yet been determined. During 17 eclipses of the satellites of Jupiter, 1,190 settings were secured.

The Variable Star Section of the British Astronomical Association, under the directorship of Mr. C. L. Brook, has continued its coöperation with this Observatory, having communicated 446 observations of a selected list of stars by seven observers, and furnishing the ten-day means of all the stars observed by them for 1916. The directors of the Goodsell and McCormick Observatories have also maintained an active plan of coöperation, by observing the variables of long period, especially when at or near their minimum phase, 259 observations having been contributed by Professor H. C. Wilson, and 65 by Professor S. A. Mitchell. Professor Mitchell has recently undertaken the determination of the magni-

tudes of the fainter stars of our sequences, which is greatly needed. The American Association of Variable Star Observers, under the supervision of Mr. Olcott, has maintained its active interest in the subject of variable stars and has contributed 15,022 estimates for our use in discussing the numerous light curves. In all, 17,405 observations have been made at, or contributed to, this Observatory during the past year, distributed as follows: —

Mr. T. W. Backhouse, 86; Mr. H. C. Bancroft, Jr., 2,591; Rev. T. C. H. Bouton, 1,025; Mr. F. E. Brasch, 66; Mr. A. B. Burbeck, 964; Mr. F. C. Butterworth, 292; Mr. L. Campbell, 1,526; Mr. J. J. Crane, 249; Mr. F. L. Ducharme, 97; Mr. C. H. Gingrich, 58; Mr. W. P. Hoge, 67; Mr. S. C. Hunter, 269; Mr. G. B. Lacchini, 1,259; Mr. C. B. Lindsley, 77; Mr. W. J. Luyten, 2,826; Mr. C. Y. McAteer, 1,228; Mr. W. P. Meeker, 74; Mr. C. S. Mundt, 360; Mr. G. F. Nolte, 230; Mr. W. T. Olcott, 413; Rev. Ed. de Perrot, 251; Mr. D. B. Pickering, 585; Mr. S. W. Pickering, 116; Mr. W. H. Reardon, 117; Mr. C. F. Richter, 88; Rev. L. Rodés, 57; Mr. F. H. Spinney, 64; Miss H. M. Swartz, 141; Mr. H. Thomson, 66; Mr. H. W. Vrooman, 289; Mr. E. H. Vogelenzang, 420; Mr. C. T. Whitehorn, 507; Professor H. C. Wilson, 186; Professor A. S. Young, 333. Besides these, 363 observations have been communicated by eighteen observers, each of whom has made less than fifty estimates.

The preparation for the printer of the unpublished observations of variable stars for 1911 to 1916 has been practically completed by Mr. Campbell. Messrs. Burbeck, Crane, and Spinney, and Miss Woods have been engaged on the reduction of the observations of special variable stars.

It will be noted that, although fifty-two observers have taken part in the observations here cited, two-thirds of the total number of estimates obtained were made by seven observers.

MISCELLANEOUS

Phillips Library. — The Library of the Observatory has been increased by 137 volumes and 2,300 pamphlets, a marked decrease from previous years. As 2,777 pamphlets have been bound in volumes, the present extent of the Library is 15,072 volumes, and 35,511 pamphlets.

In many cases, my friends have kindly sent a copy of their publications to me as well as to the Observatory. In the case of important works, this second copy is very valuable. After examining them, I deposit them in the Library, where they are available for the other stations we maintain, or where several assistants may

need the same work simultaneously. When the second edition of the Bonn Durchmusterung was issued, we purchased eight copies, several of which by daily use are now badly worn.

Telegraphic Announcements. — Nineteen cablegrams have been sent to Copenhagen, and to astronomers in South America, where communication has not been interrupted. Code messages are not permitted by the censors, and accordingly orbits and ephemerides cannot be sent. It is requested that announcements be sent here, as usual, cablegrams addressed "Observatory, Boston," and telegrams, "Harvard College Observatory, Cambridge, Mass." They will be given as wide a distribution abroad as practicable. Our telegrams are sent at cost to all who wish for them.

Thirty-one Bulletins have been issued, making 645, in all. The restriction in cablegrams gives them an increased value. They are printed promptly and not only contain all the telegraphic announcements, but much additional information sent for that purpose. They are sent without charge to all receiving the telegrams, and at a price less than cost to all others desiring them.

Publications. — During the last year, Volumes 71, No. 4, Sequences in Harvard Standard Regions; 78, Part 2, Variable Stars in the Cluster Messier 5; 80, No. 4, Northern Milky Way; 80, No. 5, Systematic Photographic Tests; 80, No. 6, Comparison of Stellar Images; 80, No. 7, Scale of the Cordoba Durchmusterung, -52° to -61° ; 80, No. 8, The Light Curve of T Andromedae; 80, No. 9, Comparison of Color Index and Class of Spectrum; 83, Part 1, Blue Hill Meteorological Observatory, 1916; and 84, No. 2, Y Camelopardalis and TT Lyrae, have been distributed. 80, No. 10, Eclipses of Jupiter's Satellites; 80, No. 11, Photographic Positions of the Moon; 84, No. 3, Six Circumpolar Variables; and 85, Durchmusterung of Selected Areas, are partly in type or at the printer's. The set of Annals from 1 to 80 is, therefore, complete and distributed, with the exception of 78, Part 3, 79, and 80, following No. 9. 83, Part 1, and 84, Nos. 1, 2, and 3, are also published. Six circulars have been issued, whose numbers, titles, and dates are as follows: —

196. Stars having Peculiar Spectra. 13 New Variable Stars. September 23, 1916.
197. Maxima in 1917 of Variables of Long Period. October 25, 1916.
198. Eclipses of Jupiter's Satellites. November 30, 1916.
199. Asteroids Bright in 1917. January 10, 1917.
200. Variability of Uranus. January 25, 1917.
201. Twenty-one New Variable Stars. July 12, 1917.

EDWARD C. PICKERING, *Director.*

THE BLUE HILL OBSERVATORY

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — The work of the Observatory has been carried on without interruption and on the whole the progress made has been satisfactory. We had, however, a great loss in the death of Mr. Waldo Emerson Forbes, '04. He was doing special work, studying the formation of fog along the coast from the Elizabethan Islands to Cape Ann with the hope of making accurate forecasts for the benefit of mariners and others. I feel that if he had lived and the work as outlined had been carried on, a great advance in our knowledge of this condition, and the successful application of this knowledge for the good of the community, would have been achieved. Mr. Forbes was serving as one of the staff without compensation. He also made a generous contribution to the endowment fund, but of much more importance and value, it seems to me, was the privilege of association with a man of such high ideals and quiet courage. In his death we lost an earnest, sincere and lovable colleague.

The observational and routine work has been carried on without a break. Our records are up to date and the data to December 31, 1916, have been published and distributed to more than 300 observatories and institutions throughout the world. The entire series of observations now extends over a period of 31 years. The equipment of the Observatory is still, we think, superior to that of any other observatory of its kind in the United States and our records are more detailed. Temperature actual and sensible, the latter being sometimes called the temperature of evaporation, humidity, sunshine, night cloudiness, moonlight intensity, wind direction and velocity, rainfall, snowfall, evaporation, fog and frost are faithfully recorded and certain phenological events noted. This year special attention has been given to the study of evaporation in the free air. Although a factor of great importance to plant physiologists, engineers and climatologists, it has up to the present time been omitted in aerographic work, probably because no satisfactory recording instrument had been devised. We have been able to utilize one of the self-recording rain-gages, making it carry a nearly constant load and converting the loss by weight into terms of depth. Evaporation is thus continuously recorded and can be studied in connection with other continuous records of tempera-

ture, wind, sunshine and saturation. The instrument is sensitive enough to show the increase due to heavy dew, or it may be said that negative as well as positive evaporation is thus recorded. Heavy dew occurs of course when the temperature of the water is below that of the lower air strata and when the vapor is near the saturation point. The time scale is one centimeter per hour, open enough for most purposes. The evaporation is at present recorded in millimeters, and under normal conditions at a temperature of 10°C or 1037 on the New Absolute scale, the weight of the evaporated water is approximately a gram for every ten square centimeters of water surface. The maximum rate thus far recorded occurred on July 30, 1917, from 2 to 3 and from 3 to 4 P.M., when evaporation was at the rate of one millimeter per hour. This was one of the warmest days of the year, with very dry and brisk west wind. The continuous records show the difference between day and night rates, also the different character of the winds. They will throw much light on the sea-breeze as well as valley winds and desiccating north or northwest winds.

As a further step in this study of the behavior of the water vapor in the atmosphere, we have had constructed an instrument known as a Saturation Deficit Recorder which gives on one sheet the temperature of the air, the temperature of the evaporating surface and the percentage of saturation. On the sheet are printed the saturation weights for given temperatures and thus it is possible to read off the weight of the water vapor in grams per cubic meter of space. This instrument will probably be of great value in sick-rooms and wherever a record of both temperature and dampness is desired. Some improvements have also been made in the whirled psychrometer whereby the flow of the air past the wet bulb is standardized.

Through the courtesy of Professor Theodore Lyman, Director of the Jefferson Physical Laboratory, we have had the services of the best of the skilled mechanics at the Laboratory for a nominal compensation. Mr. Robes not only made the Saturation Deficit Recorder referred to above (and it is equal to the best European workmanship) but has made new parts for certain worn and defective apparatus.

In connection with the marvellous development of the airplane under the impetus of war, the Observatory records of gustiness are of some value. In a letter to *Nature*, published April 12, 1917, the Director called attention to the need of systematically recording the general character of the day as suitable or unsuitable for aviation. We have begun at Blue Hill a record of the number of

hours each day when aviation is safe, or, in other words, we are attempting a record of what airmen call "bumpiness" of the air or gustiness sufficiently strong to affect the stability of the plane, and, of course, the safety of the pilot. We count as safe those hours during which the average velocity does not exceed 10 meters per second and the variation is not in excess of 50 per cent of the maximum velocity in five minutes. For example, two days in March, the 2d and 3d, were days on which there were respectively 24 hours and 0 hours during which aviation might be considered free from peril. Our records also show that aeronautical engineers have up to the present time underestimated the speed of an air particle in strong and also in moderate gusts. We have records obtained by special apparatus showing a variability of 50 per cent in three seconds and velocities as high as 60 meters per second. In one true gust the velocity of the air as thus measured was 370 meters in ten seconds, and of this 300 meters occurred in five seconds. In other words, if the air stream could maintain this spasmodic velocity, an airplane would travel round the earth in eight days, or across the Atlantic Ocean in a day.

Looking forward to the end of the war and the period of a commercial use of airplanes, it is plain that the choice of air routes will depend largely upon the frequencies of gustiness, for other things being equal such regions will have to be avoided until machines are capable of withstanding pressure strains incident to such violent wind rushes. It is this gustiness so commonly met with by airmen in clouds which causes the so-called "spinning of the compass," the real cause being the spinning of the machine itself, of which the aviator is entirely unaware because in a cloud he has no point of reference. Evidently the time has come when wind and weather must be studied, not from the narrow standpoint of personal comfort or the larger problem of crop control, but as the all important and determining factors in modern transportation and particularly in connection with fast mail and passenger service. The regulation by international agreement of world air routes will soon be a necessity and it is therefore with some pride that reference may be made here to the fact that just as it was a Harvard graduate who first journeyed through the air from one country to another separated by the sea, so it was Harvard's first Professor of Meteorology, the Founder of Blue Hill Observatory, who published entirely without official aid the first set of Charts of the Atmosphere for Aviators and Aeronauts. It is a significant tribute to the sagacity and foresight of the late Lawrence Rotch that his

work is still the only authoritative volume on this very important subject, and that within six years from his death the Postal authorities are calling for just such information.

Publications.—The Annual Report has been published in the form of a large quarto volume entitled Volume 83, Part 1, Annals of the Astronomical Observatory of Harvard College. In addition to the ten tables summarizing the observations for the year there are investigations as follows:

"The Winds of Boston," Part II, by Professor McAdie; "The Ice Saints," by Waldo E. Forbes; "The Desirability of New Units in Aerography," by Professor McAdie.

In his paper on "The Ice Saints" (the cold spells or frosts likely to occur about May 10 in Europe and so known in meteorology), Mr. Forbes made use of the Rodman records which run back to 1812. These with a number of long range European records led him to the conclusion that while such a set-back in the march of the annual mean temperature exists, there are decades when for some unknown reason the effect is masked, and hence at the present time we have no safe criterion for utilizing this variation in forecasting.

Many minor papers in the form of contributions to scientific journals have been published, the more important being of "Protection from Frost" in the *Journal of the Royal Horticultural Society* and another in the *Geographical Review*. There also appeared during the year a text-book entitled *Principles of Aerography*, in which special emphasis is laid upon the explorations of the atmosphere during the past ten years. The book uses exclusively the new units. A brief paper on the New Thermometer Scale appeared in the *Proceedings of the National Academy* and an abstract of a longer paper in the *Physical Review*.

Other educational work was the instruction of several gentlemen who are acting as instructors in Meteorology at various Army and Navy schools of Aviation and Aeronautical Engineering. The class in Aeronautical Engineering at the Massachusetts Institute of Technology does a certain amount of work at the Observatory and arrangements have been made for a laboratory course of ten hours for all students following a series of ten lectures in Aerography to be given at Cambridge by Professor Robert DeC. Ward.

When war was declared the Director with the approval of the President of the University offered the services of the staff and the use of the Observatory to the proper military authorities. The Director has also been engaged in some special work assigned by committees appointed by the National Research Council.

On May 14th we were honored by a visit of the Corporation and Board of Overseers.

Friends of the Observatory have been very generous. The income from the A. Lawrence Rotch bequest amounted to \$2632.32, which was supplemented by the income from the Waldo E. Forbes fund, of \$151.51. Gifts from Mrs. A. Lawrence Rotch, the Board of Visitors through the Chairman, and others, including a grant of \$1000 from the College, amounted to \$6,600, making a total income of \$9,383.83, being an increase over the income of the preceding year of \$2,885.03.

The total expenditures were \$7,656.24, leaving a balance of \$1,727.59 which will be added to the A. Lawrence Rotch bequest and which brings the endowment fund to over \$58,000.00.

Current expenses exceeded those of the previous year and some rather expensive repairs to the building were necessary. There has been no increase in salaries.

The most pressing need of the Observatory is additional assistance. I renew the recommendation made last year that a fellowship in Aerography should be established.

ALEXANDER McADIE, *Director*.

THE MUSEUM OF COMPARATIVE ZOÖLOGY

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — The Laboratories and Lecture Rooms of the Museum afforded the usual facilities for most of the instruction in Zoölogy, Geology, and Geography offered in Harvard University and in Radcliffe College during the academic year 1916–17.

In Zoölogy the nineteen courses and half-courses were taken by 410 students in Harvard University, and the ten courses and half-courses were taken by 98 students in Radcliffe College.

In 1915–16 these courses and students were:—

Harvard: — 20 courses, 377 students.

Radcliffe: — 10 courses, 65 students.

The inadequacy of the accommodations for laboratory work necessitated the exclusion of many students from the elementary course (Zoölogy 1).

In Geology and Geography twenty-eight courses or half-courses were offered in Harvard University, and two courses were offered in Radcliffe College.

The number of students taking these courses was 703 in Harvard University and 34 in Radcliffe College.

In 1915–16 these courses and students were:—

Harvard: — 27 courses, 515 students.

Radcliffe: — 5 courses, 49 students.

In memory of her father, Louis Cabot, Mrs. John W. Bartol has generously given \$5,000 to establish a fund, the income to be used for the purchase of books on travel, sport, and natural history for the Museum Library.

Through the generosity of Mrs. William Barbour, Mrs. I. T. Burr, Mrs. C. G. Weld, Professor Theodore Lyman, Dr. Thomas Barbour, and the Hon. W. Cameron Forbes, the Museum has been able to have some of its collections rearranged and their nomenclature revised, and also to undertake field-work which has given most interesting results.

Mr. G. K. Noble was appointed Zoölogist of the Expedition to Peru, under the joint auspices of the School of Tropical Medicine and the Museum (Dr. W. L. Moss, *Chief*), by the President and Fellows. Though the actual time spent in the field was limited to three months, Mr. Noble got together a considerable series of

mammals (125 specimens), birds (507 specimens), and reptiles and amphibians (5,000+ specimens); also a few fishes, and interesting invertebrates, among the latter a new species of *Peripatus* (*P. peruvianus* Brues).

Field-work in the West Indies was carried on by Messrs. G. M. Allen (Porto Rico), Thomas Barbour (Cuba), W. S. Brooks (Cuba and the Isle of Pines), J. L. Peters (Anegada, Porto Rico, St. Thomas, Tortola, and the Virgin Islands), and Goodwin Warner (Cuba and the Isle of Pines). The collections made, though chiefly recent reptiles and birds, include a quantity of bones of fossil mammals from the cave deposits of Cuba, the Isle of Pines, and Porto Rico.

Dr. W. M. Mann, on the conclusion of his stay among the Solomon Islands, collected in Australia. His material from the Solomons, though not thoroughly assorted, contains large series of reptiles and land invertebrates, many of which are new to the Museum collections and to science. This is also true of Dr. Mann's Fijian collections, a part of which were but recently received.

Dr. H. L. Clark was enabled, through the kindness of Dr. A. G. Mayer, Director of the Department of Marine Biology of the Carnegie Institution of Washington, to spend the month of June at the Laboratory of the Institution at the Tortugas. His collections, chiefly echinoderms, contain a few species new to science, as well as others of exceptional interest.

Professor P. E. Raymond continued his field-work in the Middle Ordovician of New York. In his work he was assisted by Mr. T. H. Clark, who, later at Martinsburg, made a large collection of fossils which he has presented to the Museum.

The thanks of the Museum are due Miss Elizabeth B. Bryant for her work upon the collection of Araneina, to Mr. L. W. Swett for his work upon the Geometridae, and to Professor Carlos de la Torre and to Messrs. J. B. Henderson, Goodwin Warner and Walter Wilcox who gave most efficient assistance in the field-work in Cuba and the Isle of Pines.

The new accessions to the collection of mammals, about 1,500 specimens, have been identified and catalogued by Dr. G. M. Allen, who has also finished the rearrangement of the rodents and made a beginning of the perissodactyles. Dr. Allen has also spent considerable time in working out from the matrix many hitherto unknown fossils from Cuba and Porto Rico and in describing the same.

Mr. Outram Bangs's constant work during recent years has brought the ornithological collection into thoroughly satisfactory

condition. Arranged according to the Sharpe Hand-list, the entire collection is readily accessible. Mr. Bangs has had the helpful coöperation of Mr. T. E. Penard in some of his research work.

Dr. Barbour reports the accession of an unusual number of species of reptiles and amphibians previously unrepresented in the collection. His field-work and his researches relate chiefly to the fauna of the West Indies.

Mr. Samuel Garman completed his study of the Galapagos tortoises in January and has since identified and rearranged certain groups of fishes. As a temporary assistant, Mr. Alvin Seale was engaged from October 17, 1916, until the close of the Museum year; his work consisted of a critical revision including the labeling, cataloguing, and rearrangement of the greater part of the apodal and serranoid fishes, and also a similar work upon a large part of the clupeoid forms.

The permanent staff of the Museum has been strengthened by the appointment of Mr. Nathan Banks as Curator of Insects. During the early years (1863-1867) of the Museum, the entomological collections were in charge of three Assistants, Samuel H. Scudder, Alpheus S. Packard, Jr., and Philip R. Uhler, later three eminent entomologists. In October, 1867, Dr. H. A. Hagen took charge of the collections, and during his term of service which lasted until his death, they were placed in the front rank of university collections. During the fifty years since Dr. Hagen's appointment, the study of insects has become more and more specialized, and the Museum is fortunate in its appointment of an entomologist whose training and interests insure a broad and equitable consideration of the work of his department. Mr. Banks has most generously given to the Museum his private collection of insects and arachnids, and also such of his books and pamphlets which relate to the same as are not already in the Museum Library; of his pamphlets more than 700 have been entered and catalogued. His gift constitutes one of the largest and most valuable entomological collections ever received by the Museum; it includes most of the typical material described by him since 1890, and is especially rich in neuropteroid insects and in the Arachnida.

Dr. R. V. Chamberlin completed his Memoir on the Albatross Annelida Polychaeta, and his manuscript will go to press when the eighty plates are printed. This will naturally require considerable time, but the Alexander Agassiz Expedition Fund enables the work to proceed as fast as practicable.

Mr. W. F. Clapp finished the rearrangement of the Gastropoda, and catalogued all new accessions and about 2,000 lots of specimens previously received. He estimates that only one per cent of the Gastropoda are not catalogued. During the year, Mr. Clapp made a collection of Mollusca and other invertebrates in the ponds and streams of Plymouth County.

Dr. Clark's Museum work consisted of the identification and cataloguing of the new accessions and the preparation of reports upon several collections. The final part of the Memoir on the Hawaiian and other Pacific Echini was published in March, and two reports on collections of ophiurans were completed. The collection of echinoderms contains 2,318 species and nearly 90,000 (89,998) specimens.

Dr. H. B. Bigelow prepared two reports, one on the Medusae and siphonophores collected by the *Bache* in the western Atlantic, and a second on the results of the 1916 cruise of the *Grampus*.

Professor Raymond continued the rearrangement of the trilobites completing the Agnostidae, Harpedidae, and Goldiidae. He also finished a memoir dealing with the appendages of trilobites, and made a final revision of a report on some new fossils from the Trenton, collected by the Geological Survey of Canada. Professor Raymond assisted the authorities of the Geological Museum of Middlebury College in the identification of their collection of fossils.

Miss Elvira Wood was employed for eight months and continued the revision and arrangement of the study series of Tertiary Gastropoda.

Mr. R. W. Sayles reports that during the winter he was engaged upon a memoir dealing with the relations of the Squantum tillite and the Connecticut River clays. He states that there have been but few accessions received during the year, a record to be qualified by noting that his own munificent donation, George Carroll Curtis's model of the crater of Kilauea, Hawaii, is the most valuable gift ever received by the Geological section of the Museum, and of the highest value for exhibition and for instruction. Like the previous work of Mr. Curtis, it gives a trustworthy representation as to form and color; it is the result of a careful personal survey, supplemented by accurate photographic data, and supported for four consecutive years by patient, generous, and enthusiastic encouragement. The Museum wishes to join with Mr. Sayles in thanking Professor T. A. Jaggar and Dr. H. O. Wood for the many courtesies shown Mr. Curtis when in Hawaii.

The exceptional skill of Mr. George Nelson in all branches of taxidermic work frequently preserves valuable material seemingly beyond repair; this, however, delays the continuous work requisite for the completion of the larger mounts undertaken each year. His notable work this year includes mounts of gigantic Land Tortoises from Aldabra and the Galapagos, an Alligator Snapper, and a number of amphibians, reptiles, birds, and mammals. Mr. Nelson also ably assisted Dr. Allen in developing the skeleton of a Meshippus and repaired and mounted for exhibition many skeletons. He has made many excellent photographs to illustrate the publications of the Museum.

Mr. A. B. Fuller's time has been wholly employed upon the study and exhibition collections of birds and mammals.

Col. John E. Thayer, to whose previous generosity the Museum is indebted for many holographic letters and original drawings of Alexander Wilson and J. J. Audubon, has given additional Wilson drawings and also the gun that belonged to Wilson. This gun, a single-barrelled flintlock, changed to percussion, was subsequently the property of John Cassin, W. P. Turnbull, W. P. Hazard, and J. M. Wade. Free from the danger of fortuitous ownership, this precious relic, still in an excellent state of preservation, is at last properly housed in the Museum. With the gun Colonel Thayer gave the letters relating its history. Colonel Thayer has also given an interesting series of mammal skins from southeastern California, and the original notebooks kept by Joseph Dixon in 1913-14, when collecting birds and mammals for him in the Arctic.

Mr. William Brewster has transferred from his private collection a number of North American birds of the greatest rarity. His gift includes specimens of the California Condor, Heath Hen, and two Labrador Ducks, one a young male and the second an adult female. Long extinct, the Labrador Duck is probably the most valuable of all North American birds; there are more Great Auks than Labrador Ducks known; the species was previously unrepresented in the Museum.

Mr. Edward Doubleday Harris has given several boxes of his fine collection of Cicindelidae (Tiger-beetles). For size, condition of the specimens, neatness and accuracy of the labeling, and for the careful determination of the species, the Harris Collection is not surpassed by any in America. The Museum is deeply indebted to Mr. Harris for the gift of his most valuable collection.

For the valuable Moreno collection of skeletal remains of Ground Sloths from the Pleistocene of Cuba, the Museum is indebted to the

generosity of Dr. Thomas Barbour, and a similar collection of bones of *Isolobodon* from the shell-heaps of Porto Rico is due to the kind interest of Mr. and Mrs. S. K. Lothrop. Dr. Barbour has also given the Museum a fine skeleton of an adult *Tomistoma*, a rare crocodilian from Sarawak.

To Mr. Frank Springer, whose early interest and gifts enhanced the value of the palaeontological collections, the Museum is indebted for a number of species of rare crinoids, mostly species new to the collection.

The Museum is also indebted to Dr. W. L. Smith for a young *Bison*; to Mr. W. T. Hornaday for several *Birds of Paradise*; to Dr. A. G. Ruthven for desirable amphibians and reptiles; to Dr. Hiram Bingham for a series of Peruvian fishes; to Professor W. M. Wheeler for many interesting land invertebrates, especially named series of ants; to Messrs. Morgan Hebard and J. A. G. Rehn for many *Orthoptera*, including recently described species; to Mr. E. B. Williamson for types of *Odonata*; to Dr. J. W. Folsom for types of *Collembola*; to Mr. J. H. Emerton for types of spiders; and to the U. S. National Museum for a series of Philippine *Medusae*.

The Library contains 54,427 volumes, and 52,499 pamphlets; 644 volumes and 2,029 pamphlets have been added during the year.

The publications of the year include two numbers of the *Memoirs*, completing volume 30 and volume 46, twelve numbers of the *Bulletin*, and the *Annual Report*, a total of 907 (248 quarto and 659 octavo) pages and 97 (60 quarto and 37 octavo) plates.

One number of the *Bulletin* was published as a *Contribution* from the Zoölogical Laboratory, two numbers as *Contributions* from the Bussey Institution, and nine numbers of the *Bulletin* contain reports on Museum collections or the results of field-work undertaken in the interest of the Museum. The two contributions from the Bussey Institution consist of reports on collections contained in part in the Museum.

One *Memoir* completes the series of reports on the Hawaiian and other Pacific *Echini* (provided for under the Alexander Agassiz Expedition Fund), and the second describes and illustrates the gigantic Land Tortoises of the Galapagos and is based on Museum material.

The Corporation granted \$300 to aid in the publication of *Contributions* from the Zoölogical and Geological Laboratories.

SAMUEL HENSHAW, *Director*.

THE ZOÖLOGICAL LABORATORY

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — No new courses in Zoölogy were announced for 1916-17; but the designation of the course on Genetics and Eugenics was changed from Zoölogy 2 to Zoölogy 8. As much the larger number of students taking courses in Zoölogy do their work in the first half-year, the intensive military training and the various war service activities affected only a relatively small proportion of the students in the Department. The numbers of those in each of the second half-year courses who took the Zoölogical examinations prepared for the Reserve Officers' Training Corps, and likewise of those credited with the courses on a "short year" on account of war service, are indicated in separate columns of Table I, which, as usual, shows the number of students from each class, or other division of the University, enrolled in each of the Harvard courses. Table II gives like information about the number of students from Radcliffe College.

TABLE I

| Courses 1916-17 | Graduates | | Sen. | Jun. | So. | Fr. | uC. | ocC. | Sp. | Tr. Md. | Total | R.O. T.C. | Sh't Yr. |
|--------------------|-----------|--------|------|------|-----|-----|-----|------|-----|------------|--------|--------------|-------------|
| | A. & S. | Ap. S. | | | | | | | | | | | |
| Zoölogy 1 | 2 | 1 | 16 | 33 | 59 | 58 | 9 | 1 | 10 | 4 | 193 | .. | .. |
| " 3 | 5+ 2 | 0+1 | 8 | 14 | 10 | 8 | 3 | .. | 4 | .. | 52+ 3 | 13 | 5 |
| " 4 | 3+ 2 | 1 | 4 | 7 | 5 | .. | .. | .. | 1 | .. | 21+ 2 | .. | .. |
| " 5a | 1+ 4 | .. | 4 | 2 | 4 | .. | 1 | 1 | .. | .. | 13+ 4 | 5 | 1 |
| " 7a | 1 | .. | .. | 1 | .. | .. | 1 | .. | .. | .. | 3 | 1 | .. |
| " 7b | 1 | 1 | .. | .. | .. | .. | 2 | .. | .. | .. | 4 | 1 | .. |
| " 7c | .. | .. | .. | 1 | .. | .. | .. | .. | .. | .. | 1 | 1 | .. |
| " 8* | 1 | 3+1 | 17 | 19 | 9 | 1 | 6 | 2 | .. | .. | 58+ 1 | .. | .. |
| " 10 | 2 | 1+4 | 1 | .. | .. | .. | .. | .. | .. | .. | 4+ 4 | .. | .. |
| " 14b | 7+ 4 | .. | 2 | 1 | 1 | .. | .. | 2 | .. | .. | 13+ 4 | .. | .. |
| " 17 | 1+ 1 | 3 | .. | .. | .. | .. | .. | .. | .. | .. | 4+ 1 | .. | .. |
| " 20a | 2 | .. | .. | .. | .. | .. | .. | .. | .. | .. | 2 | 1 | .. |
| " 20b | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. |
| " 20c | 7 | .. | .. | .. | .. | .. | .. | .. | .. | .. | 7 | .. | .. |
| " 20d | .. | 2 | 1 | .. | .. | .. | .. | .. | .. | .. | 3 | .. | .. |
| " 20e | 3 | .. | 1 | 1 | .. | .. | .. | .. | .. | .. | 5 | .. | .. |
| " 20f | .. | 5 | .. | .. | .. | .. | .. | .. | .. | .. | 5 | .. | .. |
| " 20g | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. |
| Special..... | .. | .. | 1 | .. | .. | .. | .. | .. | .. | .. | 1 | .. | 1 |
| Sums..... | 38+13 | 17+6 | 55 | 79 | 88 | 67 | 22 | 6 | 15 | 4 | 391 19 | 22 | 7 |

* Zoölogy 8 was designated as Zoölogy 2 in the year 1915-16.

NOTE. — Numbers in italics indicate students who attended the lectures, but were not enrolled in the course.

TABLE II

| Courses 1916-17 | Gr. | Sen. | Jun. | Soph. | Fresh. | Uncl. | Sp. | Trop. Med. | Total |
|--------------------|-----|------|------|-------|--------|-------|-----|---------------|-------|
| Zoölogy 1..... | 2 | 2 | 6 | 9 | 11 | 5 | .. | 1 | 36 |
| " 2..... | .. | 7 | 18 | 11 | .. | 3 | .. | .. | 39 |
| " 3..... | .. | .. | 1 | 1 | 1 | 2 | 1 | .. | 6 |
| " 4..... | 1 | 1 | 3 | .. | .. | .. | .. | .. | 5 |
| " 5a..... | 1 | 1 | 2 | .. | .. | .. | .. | .. | 4 |
| " 14b..... | 1 | 2 | .. | .. | .. | .. | .. | .. | 3 |
| " 17..... | .. | 1 | .. | .. | .. | .. | .. | .. | 1 |
| " 20a..... | 1 | .. | .. | .. | .. | .. | .. | .. | 1 |
| " 20c..... | 2 | .. | .. | .. | .. | .. | .. | .. | 2 |
| " 20g..... | .. | 1 | .. | .. | .. | .. | .. | .. | 1 |
| Sums..... | 8 | 15 | 30 | 21 | 12 | 10 | 1 | 1 | 98 |

The enrolments in Zoölogy 1 and Zoölogy 3 were larger than in any previous year, and about thirty-five applicants were excluded from Zoölogy 1 for want of adequate laboratory accommodations. The assistants in the several courses were:— Zoölogy 1, Harvard: chief assistants, Messrs. S. Hecht and D. E. Minnich; sub-assistants, Messrs. J. P. Baumberger, S. W. Chase, A. B. Dawson, H. Jordan and P. H. Pope; Radcliffe: chief assistant, Mr. S. W. Chase; sub-assistant, Mr. A. B. Dawson. Zoölogy 3, Harvard: chief assistant, Mr. J. M. D. Olmsted; sub-assistants, Messrs. S. W. Chase and S. Hecht; Radcliffe: assistant, Mr. A. B. Dawson. Zoölogy 4, Harvard: assistant, Mr. J. M. D. Olmsted; Radcliffe: assistant, Mr. A. B. Dawson. Zoölogy 5, assistant in both Harvard and Radcliffe: Mr. A. C. Walton. Zoölogy 8: assistant, Mr. L. C. Dunn.

The courses designated as Zoölogy 7a, 7b, 7c, and 10 were given at the Bussey Institution, the others in Cambridge. Eight of the students in Zoölogy 8 took laboratory work, the others were instead assigned reading with weekly conferences. Of the students in Zoölogy 14b, four in Harvard and one in Radcliffe took the laboratory work, the others presented theses.

In the University Extension Course in Elementary Zoölogy by Professor Parker there were twenty-four students. Mr. H. G. Coar was the assistant.

Work in research, though in several cases interrupted by war demands, was counted as the equivalent of courses as follows: in Harvard, Zoölogy 20a and 20b, under Professor Mark, eight

courses; Zoölogy 20c, under Professor Parker, nine and a half courses; Zoölogy 20d, under Professor Castle, one course; Zoölogy 20e and 20g, under Assistant Professor Rand, seven and a half courses; Zoölogy 20f, under Professor Wheeler and Assistant Professor Brues, six courses; in Radcliffe, Zoölogy 20a, under Professor Mark, one course; Zoölogy 20c, under Professor Parker, two and a half courses; Zoölogy 20g, under Assistant Professor Rand, a half-course. Courses 20d and 20f were carried on at the Bussey Institution.

The degree of Ph.D. was conferred in February on Alfred Clarence Redfield, whose thesis was on "The Physiology of the Melanophores of the Horned Toad," and in June on Selig Hecht, whose thesis was entitled "The Physiology of *Ascidia atra* Lesueur," and on Dwight Elmer Minnich, whose thesis was on "The Photic Reactions of the Honey Bee, *Apis mellifera* L.: A Quantitative Study in Circus Movements."

Owing to the demands of the War, only one Harvard student in addition to the Resident Naturalist was at work at the Bermuda Biological Station during the summer. Aid from the Humboldt Fund to the amount of \$150 was granted during the year.

The Harvard Table at the Marine Biological Laboratory, Woods Hole, was occupied by a research student in physiology, and the Radcliffe table was shared by a Radcliffe Senior, pursuing physiology, and a Radcliffe Junior, who took the course in embryology.

At the twenty-seven meetings held by the Zoölogical Club the average attendance was about 18. Thirty-three original papers and eleven reviews were presented.

There have been issued during the year 47 publications by officers and students of the Department, including those which were published as *Contributions from the Zoölogical Laboratory* and as *Contributions from the Bermuda Biological Station for Research*, but not including those in Applied Zoölogy. The titles are printed in the current Report of the Director of the Museum of Comparative Zoölogy, and some of them have also been printed in the *University Gazette*.

EDWARD L. MARK, *Director*.

MINERALOGICAL MUSEUM AND LABORATORIES OF MINERALOGY AND PETROGRAPHY

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — The removal of some of the laboratories of Mineralogy to Pierce Hall has been completed, affording greatly improved facilities there and diminishing fire risk in the Museum.

In January, 1917, the Hancock collection of minerals was purchased for the Museum from the estate of the late Elwood P. Hancock of Burlington, N. J., by the trustees of the estate of Albert F. Holden, '88, this representing the first instalment of Mr. Holden's endowment. Mr. Hancock, who died in his eighty-second year, was a landscape painter who also carved in wood, and for sixty years an ardent collector of minerals. To this pursuit he brought his artistic eye and skilled manipulation with fine tools as well as an extraordinary instinct for fine and interesting specimens. For many years he made collection trips to American mineral localities and worked out the choice specimens he acquired with incredible skill so as to show their beauty. The collection has 1600 specimens, of generally first quality, and usually matrix specimens with good crystals; its great value as additional to our own collections lies in the superb crystals from such famous American localities as Franklin Furnace, Amelia Court House, Tilly Foster, etc.

During the year 1917 the Department of Mineralogy and Petrography received a gift of novel character which it is hoped will prove in the future of much value to the work of instruction in the Department and to the Mineralogical Museum. The sum of three thousand dollars was placed at the disposal of the Chairman of the Department by an anonymous donor with which was secured a ninety-nine-year lease of the mineral rights on a tract of land embracing some sixty acres in the town of Greenwood, Maine. A large ledge of granite pegmatite containing gem tourmaline and other interesting minerals had been developed on this land by Mr. George L. Noyes of Norway, Me., who transferred to the Department all the minerals which he had taken from the ledge, a collection of several hundred specimens, including several handsome Museum groups and good representation of some twenty mineral species. A fund of seven hundred dollars was

further subscribed by Mr. Edward Mallinckrodt of St. Louis and Mr. A. C. Burrage of Boston for the purpose of working the ledge. It proved to be impossible to undertake the work during the past summer, but it is hoped to do so in the future, and it appears practicable not only to obtain new and valuable material for the Museum but also to study the structure and geologic history of this type of deposit in a manner which has never been possible elsewhere notwithstanding the abundant operation of gem quarries in other parts of New England. It is also hoped that a summer camp may eventually be established on the property where advanced students may take advantage of the opportunity for mineralogical studies not only at the immediate locality but as well in the numerous mineral occurrences within easy reach from this point as a center.

A number of fine specimens have been received from various friends, especially from members of our Visiting Committee.

In common with other departments of the University our officers have assisted in the instruction of the Harvard R. O. T. C., especially in topography.

JOHN E. WOLFF, *Curator.*

THE PEABODY MUSEUM OF AMERICAN ARCHAEOLOGY AND ETHNOLOGY

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — The activities of the Museum during the year have resulted in a material increase in its collections, and in the availability of its specimens for study by specialists and other students. Considerable time has been given to research in the various branches of Anthropology, and numerous articles have been prepared by members of the staff which have appeared in the Museum publications and elsewhere.

The seventh volume of the Museum "Papers," bearing the title "History of the Spanish Conquest of Yucatan and of the Itzas," was published in June. This paper is the result of work carried on under the direction of Dr. A. M. Tozzer by Mr. Philip A. Means, as a graduate student in the Division of Anthropology, during the years 1915-17. It is based largely upon the collection, now in the library of the Museum, of photographic reproductions of early manuscripts and printed books from Mexico and Central America.

In May, the African department published the initial volume of the Harvard African Studies, a quarto of some three hundred pages and sixty plates, containing numerous papers on African archaeology and ethnology. It is a matter of particular gratification that of the papers which go to make up this book, three are based on collections recently acquired by the Museum.

The Central American Expedition, in charge of Mr. Samuel K. Lothrop, is still in the field, and will continue its work for another winter. The center of operations has been Tegucigalpa, Honduras. Several large groups of ruins have been discovered in Honduras and Guatemala.

Early in the year, Mr. S. J. Guernsey, Assistant Curator of Archaeology and Ethnology, spent two months in northeastern Arizona, in charge of the field-work of the Museum. He explored a cliff house in the Chin Lee Valley, and burial caves in the Marsh Pass region. From the latter, several desiccated bodies were unearthed, together with clothing, basketry, implements, weapons, and other articles which had been buried with them. There were also recovered two prehistoric domestic dogs of different varieties. Owing to the sheltered position of the caves, and the dry air of the

region, these objects were in a remarkable state of preservation. A study of this collection and of the data relating to the burial adds materially to our knowledge of the prehistoric people of the Southwest.

Dr. C. F. Newcombe, who has an intimate knowledge of the tribes of the Northwest Coast, conducted an expedition for the Museum to the remote villages of the Kwakiutl Indians, situated upon the inlets of southwestern British Columbia. He secured an unusually good collection, illustrating the ceremonies and domestic life of this people. Among the objects may be mentioned several large cannibal bird masks used in the winter dances.

During his trip to the Amazon and Rio Negro, Dr. A. Hamilton Rice obtained much valuable ethnological material, including household and ceremonial objects and other specimens relating to the natives of the Rio Negro region, and also many examples of the featherwork which makes up the picturesque costumes of the Tuyuka and Tukano tribes of the Rio Tiquié.

From the Harvard Peruvian Expedition there have been received several mummified human bodies taken from burial caves in the vicinity of Huancabamba, northern Peru. These were wrapped in cotton shawls or blankets, woven in stripes or decorated with painted designs in brown and black on a white ground. The garments were fastened with large bronze pins of the type not uncommon in ancient Inca graves and ruins.

Dr. Charles Peabody, Curator of European Archaeology, has given his time principally to classifying and cataloguing the collections pertaining to his department. He has published in the Holmes Anniversary Volume a paper relating to the Museum's collection of prehistoric Italian bronzes from a necropolis at Caverzano in Venetia.

Mr. Oric Bates, Curator of African Archaeology and Ethnology, with the aid of a few friends, had the good fortune to secure a very notable Congo collection, for the purchase of which negotiations have been going on for nearly three years. The accession numbers some nine hundred objects, and comprises the wood carvings brought together by Monsieur Henri Pareyn, and a large number of pile cloths and other textiles. The character of this material is such as to make the Museum's Congo section both representative and distinguished.

There has also been secured a number of valuable native bronzes, brought from the city of Benin, near the mouth of the Niger, by officers of the British Punitive Expedition in 1897.

The osteological specimens received during the year have been catalogued by Dr. Hooton. He has also prepared labels for the new exhibits in the Osteological Hall, and has assisted materially in the cataloguing and installing of collections pertaining to the Museum in general. Two of the papers which appear in the African Studies are by Dr. Hooton.

Miss Gleason has continued her work of classifying and arranging the extensive collection of photographic prints, and two additional sections of the large filing cabinet have been built.

The Museum's collection of negatives, numbering nearly eleven thousand, has been augmented by the gift from Professor Harrison W. Smith of a valuable series taken by him during his recent journey among the Dyaks of Borneo.

The Museum Library, under the charge of Dr. R. B. Dixon, now numbers 7,119 volumes and 6,593 pamphlets. There have been added during the year 194 volumes and 150 pamphlets. The collection of photographic copies of early manuscripts and printed books from Mexico and Central America, given by Mr. Charles P. Bowditch, through the courtesy of Professor W. E. Gates, has been greatly increased and now numbers 228 volumes. Other notable additions are a copy of the valuable original edition of "A History of the Indian Tribes of North America," by McKenney and Hall, in three folio volumes, the gift of Mr. J. T. Gilbert; and a complete set of the "Journals of the Straits Branch of the Royal Asiatic Society," presented by Professor Harrison W. Smith. The indexing of the back numbers of periodicals has been carried practically to completion during the year, and now all the important periodicals are indexed in the subject catalogue.

Through the generosity of Dr. A. Hamilton Rice, twelve double alcove cases and three large wall cases have been built for the South American exhibit in the second floor gallery of the new section of the Museum. This will soon be open to the public. A railing case for the installation of smaller objects is much needed in this gallery.

The Central American hall on the third floor of the new section has been opened to the public since November 18. The Mexican and Central American collections have been rearranged and much new material added, including several reproductions of the large stelae and altars of the ruined city of Quirigua, Guatemala, moulds for which have been in storage since 1901.

Archaeological collections from most of the states of the Atlantic Coast have been placed on exhibition in cases made vacant in Room 32 by the removal of the Mexican and Central American exhibits to the new section.

The income from the Henry C. Warren Fund was used for field-work in Arizona; that of the Mary Hemenway Fund for the salary of one of the Museum staff, and for exhibition cases; the income from the Huntington Frothingham Wolcott Fund was expended for collections and specimens, the most important of which came from the little known tribes of southern British Guiana. The receipts from the remaining funds were used for general purposes of the Museum and Library.

During the year the Museum has received numerous gifts of money for special purposes. These are recorded in the report of the Treasurer of the University. Archaeological and ethnological specimens from forty-eight individuals have been received as gifts, many of them of great interest and value. Among the most noteworthy may be mentioned the collection presented by Mr. Edward Bowditch, Jr., consisting of several hundred articles of clothing, household objects and weapons, from the Bagobo, Manobo, Moro, and other tribes of the Philippine Islands. Most of these were obtained in the District of Davao, Mindanao Island, during the summer and autumn of 1913 and the spring of 1914, under the direction of Mr. Bowditch, while Secretary of the Moro Province, and for a time Acting Governor.

A collection of seventy-seven human crania, given by the Boston Society of Natural History, is of special interest, as many of them formed a part of the private collection of Dr. Jeffries Wyman, the first Curator of the Peabody Museum.

In company with other departments of the University, the Museum took an active part in the scientific exhibition held in the Massachusetts Institute of Technology building, during the meeting of the National Academy of Sciences in November. Its exhibits related to the following subjects: Race Mixture in Hawaii, Dr. A. M. Tozzer; Prehistoric Specimens from the Caves of France and Palestine, Dr. Charles Peabody; Casts and Reconstruction of Ancient Man, Dr. E. A. Hooton; Prehistoric Libyan Remains, Mr. Oric Bates; Cave Exploration in northeastern Arizona, Mr. S. J. Guernsey. Each of the above Curators gave brief explanatory talks to visitors.

The Museum opened its doors to the public Sunday afternoons for the first time on February 4. On March 25, as a precaution against the possible acts of irresponsible persons on account of the war, it was closed, and remained closed both week days and Sundays until May 21, when it was again opened on week days. Sunday opening is made possible by the contributions of a few friends, which enable the employment of two guards; and also by the

authorities of the City of Cambridge, who generously assigned a policeman for duty during the afternoons. The average attendance is about four hundred.

The acquisition and installation of much new material illustrating the development of mankind, and the arts and industries relating to primitive peoples, have led to a greater use of the Museum by students of the University and by those of other institutions of higher education in Boston and vicinity. There has also been a notable increase in its use by pupils of public and private schools throughout the Metropolitan district, and a day rarely passes when one or more groups of students do not take advantage of the opportunity offered. A special teacher has been appointed by the City of Cambridge, whose duty is to meet classes from the city schools under charge of their teachers, escort them through the museums and give instruction upon selected subjects. During the year more than nine thousand pupils from the Cambridge public schools alone have thus visited the museums.

CHARLES C. WILLOUGHBY, *Director*.

THE SEMITIC MUSEUM

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — It is a pleasure to record that the Semitic Museum continues to be highly useful to students and the public. In particular to students of history, art, and the Bible the Museum is serviceable. It is frequently visited by groups of such students from the neighboring colleges, schools, and churches. The opening on Sunday afternoons is much appreciated.

From the beginning it has been the policy of the Museum not to restrict the selection of specimens to objects of Semitic origin, but to choose a limited number from non-Semitic sources (Egyptian, Persian, Greek, Roman), in so far as such objects illustrate Semitic history. Of this class is a bas-relief of Rameses II standing in front of the goddess Hathor. This object was brought from Egypt by Mr. John Lowell in 1836, given by his heirs to the Peabody Museum in 1878, and with the approval of President Lowell transferred by the Peabody Museum to the Semitic Museum in 1916.

The treasury of the Museum is in great need of replenishment; but the time seems not opportune for an effort to meet the need. The whole region of the home of the Semites, notably Babylonia and the Holy Land, is now the scene of active war.

DAVID G. LYON, *Curator*.

THE FOGG ART MUSEUM

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — I have the honor to present the following report on the Fogg Art Museum for the year 1916-17.

GIFTS

Society of Friends of the Fogg Museum: Building of the temple, attributed to Pesellino.

Henry Goldman, of New York City: Madonna and Child, by Spinello Aretino.

Henry Goldman and others: Nativity, painting by the Lorenzetti or their School.

Arthur Sachs, Class of 1901: Madonna and Child, by Jacobello del Fiore.

Edward D. Bettens, Class of 1873, to the Louise E. Bettens fund: Lake O'Hara, oil painting by John Singer Sargent; Monmouth before James II, a large unfinished oil painting by John Singleton Copley; Sunday at Domberg, watercolor by James Abbott McNeill Whistler; Bridle-path, Tahiti, watercolor by John LaFarge.

Dr. Denman W. Ross, Class of 1875: 229 Japanese prints in frames; 42 Chinese porcelains; Chinese painting of a Korean gentleman; 5 Japanese screens; Japanese painting of an eagle; Japanese painting of a flower piece; Chinese bronze tripod; bronze fountain, Boy with a water-jug, by Gemito; treasury note signed by Hung Wo; example of Persian writing; 10 watercolor drawings by Dodge Macknight; lead-pencil drawing, "Strassburg," by Samuel Prout; "From Hastings," watercolor drawing by Turner; copy of Turner's "Heysham," by William Ward; 35 drawings by Joseph Lindon Smith; 19 drawings by Robert D. Gauley; 5 drawings by Charles H. Moore; 3 drawings by Dr. Denman W. Ross; 2 drawings by Harold B. Warren; 2 drawings by Henry R. Newman; 1 drawing by A. Macmurdo; 1 drawing by C. H. Woodbury; 9 pieces of textile; 2 cases of various objects, still life subjects.

Group of friends: Camping near Lake O'Hara, watercolor by John Singer Sargent.

Bequest of Edward P. Bliss, Class of 1873: Greek torso of a boy.

Philip M. Lydig, Class of 1889: 9 fragments of mosaic work from the mosques of Turkestan; 3 fragments of pottery from Merro; 3 lamps.

Ludwig Dreyfus: Landscape by Jan van Goyen.

The Ehrich Galleries: Grisaille painting, early 16th century Italian.

Miss Katherine Bullard: Watercolor copy of Giovanni Bellini's Truth.

Indiana Historical Commission: Indiana medal.

PURCHASES

Fourteenth century Sienese panel, painted on both sides; subjects:
 "Deposition," and "Woman, behold thy Son."
 The Matterhorn, watercolor by John Ruskin.
 Edinburgh, lead-pencil drawing by J. M. W. Turner.

The Print Department has been enriched by gifts as follows:—

Dr. Denman W. Ross: James Abbott McNeill Whistler, 3 lithographs —
 La belle dame endormie, Rue Furstenburg, Gabled roofs; and one
 etching — Rialto. Two engravings — La Belle Jardinière (after
 Raphael), and Watering place (after Gainsborough).
 W. A. White, Class of 1863: Hollar, Dance of Death (30 etchings after
 Holbein).
 Pierre la Rose, Class of 1895: Alfred J. Downey, Pietà (copy of Goltzius).

LOANS

During the past year the Fogg Museum has received a number of important loans. Roughly speaking, they may be divided into three classes: I. Works of art which have come to the Museum as indefinite loans; II. A series of loans of important pictures, one at a time, for a period of about four or five days, and in some cases for a longer period; III. Special exhibitions, some of which have remained in the Museum for several months.

I. Indefinite loans:—

Paul J. Sachs, Class of 1900: Juan de Burgos, Spanish School, Annunciation; James Abbott McNeill Whistler, Symphony in blue and silver, Trouville.
 Museum of Fine Arts: Monju, Japanese painting of Kamakura period; 5 paintings attributed as follows: Sienese School, Madonna and Child enthroned; Russian School, Madonna and Child and three saints; Unknown, Greek calendar; Italian School, Madonna and Child; Domenichino, Sibyl.
 Dr. Denman W. Ross: Collection of drawings, etc., illustrative material for students of drawing.
 Frederick S. Allen, Class of 1916: 44 prints by Rembrandt, Hans Sebald Beham, Alphonse Legros, Childe Hassam, Maxime Lalanne, Félix Bracquemond, Francis Seymour Haden, James Abbott McNeill Whistler, Charles François Daubigny, Auguste Lepère, and others.

II. Loans for a few days:—

Gimpel and Wildenstein: Gentile da Fabriano, Madonna and Child.
 Friend in New York: Piero della Francesca, Crucifixion; Piero di Cosimo, Madonna adoring the Child; Matteo da Siena, Madonna and Child.

Miscellaneous loans were received for longer periods, as follows:—

Samuel Sachs: Antonio Moro, Portrait of Señor del Rio; Tintoretto, Diana.

Henry Goldman: Holbein, Musician.

Mrs. Benjamin Thaw: Ferdinand Bol, Lady and two children; Early Madonna, thought to be by a Sicilian master; Early Italian Madonna; French primitive, Mary anointing the feet of Christ; Entombment of Christ; Portrait of Cosimo de' Medici; Spanish head; Fragment of Renaissance marble sculpture, style of Michelangelo.

Mortimer L. Schiff: Collection of drawings by Old Masters, with a catalogue.

Mr. and Mrs. Charles B. Perkins: Sienese triptych, Crucifixion; Florentine School, Holy Family.

Dr. F. L. Dunham: Winslow Homer, watercolor.

Pierre la Rose: Claude Lorrain, Temple of Diana, Gate of Janus, Invocation to Fortuna, Harbor sunset; Gaspar Poussin, Artemis and Actaeon.

Harold W. Bell, Class of 1907: Nicolas Poussin, Cincinnatus.

Wilfrid M. Voynich: 12 illustrated books.

Paul J. Sachs: 2 pieces of brocade; 2 bronzes by Paulanship, Centaur, and Dancer and gazelles.

Edward W. Forbes, Class of 1895: 2 watercolors by J. M. W. Turner, "Simplon" and "A wave"; Jean François Millet, a pastel, "Harrow"; John Singer Sargent, watercolor of Lake O'Hara; 2 volumes—Holbein, Dance of Death; and C. R. Leslie, Memoirs of Life of John Constable.

R. N. Burnham, Class of 1897: Etruscan oinochoe; 2 Etruscan canthari; Mound builder's jar.

John K. Wright, Class of 1912: Cantharos.

G. Hamilton Martin, Jr.: 11 Japanese prints—Kuniharu (1), Kunisada (5), Toyokuni (3), Hiroshige (1), Yeizan (1).

Charles A. Walker: Johannes Bosboom, watercolor representing the interior of a cathedral.

Museum of Fine Arts: 9 screens of duplicate textiles for use of Miss Kallen in teaching children.

III. The Museum has again been fortunate in having special exhibitions of exceptional beauty.

A. From November 15th to December 6th was held a remarkable exhibition of Flemish paintings, certainly the most important and perhaps the first ever held in the vicinity of Boston.

Paintings were lent by:—

Michael Dreicer: Hans Memlinc, the Archer, said to be a portrait of the son of Charles the Bold; Jan Gossaert or Mabuse, Portrait of Eleanor of Austria.

Philip Lehman: Hugo van der Goes, Portrait of a woman.

Henry Reinhardt: Rogier van der Weyden, Christ appearing to Mary.

Mr. and Mrs. George Blumenthal: 2 paintings by Josse van Cleef, Triptych and a Madonna and Child.

Arthur Sachs: Marcellus Koffermans, Triptych.

Paul J. Sachs: Isenbrandt, St. John the Baptist; 4 drawings by Brueghel, School of Brueghel, Van Dyck, and Jordaens.

A friend in New York: Rogier van der Weyden, Christ appearing to Mary. Ehrich Galleries: Antonio Moro, Portrait of Señor del Rio and Portrait of Señora del Rio; School of Rogier van der Weyden, Nativity; Peter Paul Rubens, Sketch.

P. W. French & Co.: Albert Bouts, Madonna and Child enthroned; 4 tapestries; Colijn de Coter, St. Michael and St. Agnes.

Gimpel and Wildenstein: Jean Prévost, Madonna and Child; Peter Paul Rubens, Madonna and Child.

Kleinberger Galleries: Rogier van der Weyden, Portrait of a young man; Master of the St. Ursula Legend, Diptych; Master of Hoogstraeten, Quintuptique; Josse van Cleef, Madonna and Child; Joachim Patinir, St. Jerome; Peter Paul Rubens, Meleager and Atalanta.

B. Mr. John Pierpont Morgan, Class of 1889, kindly lent his fine collection of original Rembrandt drawings. These were on exhibition in the Print Room from March 26th to June 13th.

PUBLIC LECTURES

"*La France, pays de grands sculpteurs pendant huit siècles*," by M. Arsène Alexandre, December 11, 1916.

Conferences in the gallery:

Gentile da Fabriano, Madonna seated with the Christ Child, by Professor George H. Edgell (Class of 1909), October 24, 1916.

The Paintings in the Flemish Exhibition, by Professor George H. Edgell, December 24, 1916.

"The Flemish Manner of Painting, as illustrated in the Flemish Loan Exhibition," by Professor Arthur Pope (Class of 1901), December 27, 1916.

PHOTOGRAPHS AND SLIDES

Seven hundred and sixty-seven photographs have been added to the collection this year, of which 158, a gift from the Museum of Fine Arts, Boston, and 7 from T. H. Thomas (Class of 1903), were reproductions of prints and drawings, to be used with the prints. The remainder, with the exception of 60, which were purchased, were gifts from the following people: Dr. Denman W. Ross, John Pierpont Morgan, Estate of Alexander Agassiz, Arthur Hoe, P. W. French & Co., Arthur Sachs, Martin Ryerson, Miss Frances R. Morse, Paul J. Sachs, and Edward W. Forbes. The total collection now numbers 46,790.

The Arundel Club publication, totaling twenty plates, has been entered in our books.

Photographs were lent to instructors and occasionally to students, for outside use, two hundred and twenty-seven times.

Twenty-six dollars was received from the sale of photographs, and \$17.00 from the sale of postcards.

Two thousand one hundred and seventy-nine slides have been added to the slide collection. Two thousand and seven of these were the gift of Paul J. Sachs, and 172 were purchased, bringing the total of the slide collection to 13,259. Five hundred and twenty-five slides have been catalogued this year and the remainder so arranged that they are readily accessible. Slides have been lent for use by the professors in the Fine Arts Department six hundred and forty-one times.

The public school lending set of Greek slides was used by twenty high schools, the Roman set by twenty-two, and the English set by sixteen.

BOOKS

Three hundred and forty-two books were gifts from the following people: —

Museum of Fine Arts, Boston, Dr. Denman W. Ross, John Pierpont Morgan, Joseph E. Widener, W. A. White, Bernhard Berenson, Desmond FitzGerald, Louis C. Tiffany, Fred A. Rollins, Samuel Henshaw, P. W. French & Co., Dr. George H. Chase (Class of 1896), Langdon Warner (Class of 1903), Paul J. Sachs, and Edward W. Forbes.

Three books were transferred from the Harvard College Library, and 18 were purchased from the Searle Fund. This brings the total accessions of the year to 363, and the total of the library to 1408.

The bibliography of fifteenth and sixteenth century illustrated books in the Widener Library, which was begun last year, is being continued. A card catalogue of works of art in the Fogg Museum is in progress; and a catalogue of a proposed exhibition of early German woodcuts has been prepared.

THE SOCIETY OF FRIENDS OF THE FOGG ART MUSEUM

The Museum has received important gifts from the members of the Society of Friends. The present membership is: Class A, 116; Class B, 54.

STAFF

The staff has been increased by the appointment of Miss Margaret E. Gilman, as Secretary of the Museum.

Mr. Harry B. Wehle gave several hours a week during a part of the year as voluntary assistant.

NEEDS

The activities of the Museum are seriously hampered by the lack of funds and the lack of space.

EDWARD W. FORBES, *Director*.

THE GERMANIC MUSEUM

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — The war has delayed the completion of the new Museum building to such an extent that even now, at the end of the academic year 1916-17, no definite date for the reopening of the Museum can be set.

We have utilized the time by having all our casts tinted, as nearly as possible, in the colors of the originals. This work has been entrusted to Mr. F. W. Miller of Providence, R. I., an artist eminently qualified for his task by thorough familiarity with most of the originals and by special study of their material. It will take three or four months more to complete this work, the cost of which is provided for by a part of the building fund set aside for this purpose.

For the windows of the chapel we have had reproductions made of twelve stained glass window panes from the cathedral of St. Stephen at Vienna and other Austrian churches, mostly belonging to the fifteenth century. The artist, Mr. H. A. Oster, of Boston (formerly of Munich), has performed his work with rare skill. The expense of these panes has been defrayed by a special gift from Mr. Otto H. Kahn of New York and by the bequest of the late Mr. Weisbein.

The death of Professor Warren, the consulting architect, which occurred early in the summer, has inflicted a great loss upon the friends of the Museum. For the present satisfactory state of the building is to a large extent due to his unflagging zeal, his discriminating taste, and his high artistic standards. Fortunately, his partner, Mr. F. Patterson Smith, has been able to assume all his responsibilities.

KUNO FRANCKE, *Honorary Curator.*

HARVARD UNIVERSITY PRESS

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I have the honor to submit my report for the academic year 1916-17.

In spite of unsettled conditions due to the War the business of the Press has shown a slight increase over that of the previous year: the receipts from the sale of books amounting to \$78,446 as compared with \$77,363 in 1915-16, and the gross business, printing and publishing combined, amounting to approximately \$145,000, as compared with \$125,000 in the year before.

A number of notable publications have been issued during the year, including "Genetics and Eugenics" by Professor Castle (published in December and twice reprinted during the following six months), "The Religious Thought of the Greeks" by Professor C. H. Moore, The King's Chapel lectures on "The Religious History of New England," and a treatise (now in its fourth printing) by Col. Azan of the French Military Mission.

A complete list of the publications issued during the year follows:

- Ephod and Ark: A Study in the Records and Religion of the Ancient Hebrews. By William Rosenzweig Arnold, Andover Professor of the Hebrew Language and Literature in Harvard University.
- The War of Positions. By Lt. Colonel Paul Azan, of the French Army.
- An Introduction to the Calculus of Variations. By William Elwood Byerly, Perkins Professor of Mathematics, Emeritus, in Harvard University.
- Genetics and Eugenics: A Text-book for Students of Biology and a Reference Book for Animal and Plant Breeders. By William Ernest Castle, Professor of Zoölogy in Harvard University and Research Associate of the Carnegie Institution, of Washington.
- How to Avoid Infection. By Charles Value Chapin, M.D., Superintendent of Health in Providence, R. I.
- Adenoids and Tonsils. By Algernon Coolidge, M.D.
- The Mirror of Gesture. Translated into English by Ananda Coomaraswamy and Gopāla Kristnayya Duggirala.
- Business Statistics. Edited by Melvin Thomas Copeland, Assistant Professor of Marketing and Director of the Bureau of Business Research in Harvard University.
- Essays in the Earlier History of American Corporations. By Joseph Stancliffe Davis, Assistant Professor of Economics in Harvard University.
- Waiver Distributed. By John S. Ewart, K. C.

- Personality in German Literature before Luther. By Kuno Francke, Professor of the History of German Culture, Emeritus, in Harvard University.
- The Pauline Idea of Faith in its Relation to Jewish and Hellenistic Religion. By William Henry Paine Hatch, Professor of the Literature and Interpretation of the New Testament in the Episcopal Theological School, Cambridge, Mass.
- Three Peace Congresses of the Nineteenth Century. Claimants to Constantinople. By Charles Downer Hazen, William Roscoe Thayer, Robert Howard Lord, and Archibald Cary Coolidge.
- The Order of Nature. An Essay. By Lawrence Joseph Henderson, Assistant Professor of Biological Chemistry in Harvard University.
- The Spiritual Interpretation of History. By Shailer Mathews, Professor of Historical and Comparative Theology and Dean of the Divinity School of the University of Chicago.
- The Harvard Volunteers in Europe. Edited by Mark Anthony DeWolfe Howe, Editor of the *Harvard Alumni Bulletin* and the *Harvard Graduates' Magazine*.
- The Continuum and Other Types of Serial Order. By Edward Vermilye Huntington, Associate Professor of Mathematics in Harvard University.
- Euthymides and His Fellows. By Joseph Clark Hoppin, sometime Professor of the Greek Language and Literature in the American School of Classical Studies at Athens.
- Laboratory Manual of General Chemistry. By Arthur Becket Lamb, Assistant Professor of Chemistry and Director of the Chemical Laboratory in Harvard University.
- The Religious Thought of the Greeks from Homer to the Triumph of Christianity. By Clifford Herschel Moore, Professor of Latin in Harvard University.
- The Religious History of New England. By J. Winthrop Platner, George E. Horr, George Hodges, William Wallace Fenn, William E. Huntington, Rufus Matthew Jones, John Coleman Adams, and William L. Worcester.
- Addresses on Government and Citizenship. By Honorable Elihu Root. Edited by Robert Bacon and James Brown Scott.
- Latin America and the United States. By Honorable Elihu Root. Edited by Robert Bacon and James Brown Scott.
- The Military Policy of the United States. By Honorable Elihu Root. Edited by Robert Bacon and James Brown Scott.
- An Approach to Business Problems. By Arch Wilkinson Shaw, Lecturer on Business Policy in Harvard University and Editor of *System*.
- To Mexico with Scott. Letters of Capt. E. Kirby Smith to his Wife. Prepared for the press by his daughter, Emma Jerome Blackwood. With an introduction by Robert Matteson Johnston, Assistant Professor of Modern History in Harvard University.
- An Adequate Diet. By Percy Goldthwait Stiles, Assistant Professor of Physiology in Harvard University.
- The Composition and Date of Acts. By Charles Cutler Torrey, Professor of the Semitic Languages in Yale University.

A Guide to the Articles of War. By Eugene Wambaugh, Professor of Law in Harvard University and Major and Judge Advocate, O. R. C., U. S. A.

State Sanitation: A Review of the Work of the Massachusetts State Board of Health. Vol. I. By George Chandler Whipple, Gordon McKay Professor of Sanitary Engineering in Harvard University and the Massachusetts Institute of Technology.

Our need for adequate quarters in which to work has been very satisfactorily met by the assignment, last year, of Randall Hall for the use of the Press. Some expense was involved in transferring our equipment and fitting up the new offices, but the changes necessary in the building have been comparatively slight and as a result we have a plant which, after a year's use, has proved to be remarkably well adapted to our needs. The improved facilities are reflected in an increased volume of work done.

During the year the Press has curtailed its publishing activities to some extent, owing in part to the increase in the cost of materials and labor and to the reluctance which the Syndics naturally felt in drawing on gifts and loans in a period of high prices. With a larger number of manuscripts being offered to us and many European scholars turning to us for publication, the limitations occasioned by the lack of an adequate endowment were never, perhaps, more obvious. As has been noted above, however, we have handled during the year a larger volume of work, due, in part, to the fact that the facilities of our plant have been put at the disposal of certain learned societies for manufacturing publications which they have been unable to have printed in commercial establishments.

In making plans for the coming year the Press is faced with the fact that the money and materials which would be used in issuing learned publications may be wanted for more pressing needs. The obligation which this situation imposes will be kept in mind in selecting new books for publication and the preference will be given to those which contribute towards a better understanding of the military, economic, and social problems of the day.

CHARLES CHESTER LANE,
Director of the Press.

UNIVERSITY EXTENSION

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — The following report covers the work of University Extension for the academic year 1916-17, including the Summer School of Arts and Sciences for 1917.

I. THE SUMMER SCHOOL OF ARTS AND SCIENCES

The conduct of the Summer School of 1917 was in the hands of Asst. Professor K. G. T. Webster, Director.

The general courses of the Summer School were offered by thirty-nine officers of the Faculty of Arts and Sciences and two of the Faculty of Architecture, including nine professors, one associate professor, fifteen assistant professors, thirteen instructors, and one graduate student; together with six professors, two associate professors, two assistant professors, two instructors, and seven gentlemen not holding academic positions.

The war checked the steady growth of the School, and with our liberally planned program we suffered a considerable loss.

The usual courses at the Hemenway Gymnasium under Dr. D. A. Sargent engaged the services of a large number of other instructors and assistants.

The list of courses follows:—

SUMMER COURSES OF INSTRUCTION, 1917

All courses met five times a week for six weeks unless otherwise stated.

The degrees (A.B., A.A., S.B.) for which the courses were accepted are indicated after the name of the course. The courses are valued as half-courses, unless otherwise stated.

Harvard students are designated by their status in the academic year preceding the Summer School. The number of auditors (often an important element in the course) is indicated in addition to the number of persons actually registered for the course.

ARCHITECTURE

- 84a. Associate Professor J. S. HUMPHREYS and Mr. W. G. PERRY. — Elements of Architectural Form. (M.Arch.) 1 Ju. Total 1.
- 84b. Associate Professor J. S. HUMPHREYS and Mr. W. G. PERRY. — Architectural Design (Intermediate Course). (M.Arch.) 4 S.S. Total 4.

ASTRONOMY

- S2a. Dr. H. T. STETSON. — Practical Astronomy. (A.B., A.A., S.B.)
7 S.S., 1 Fr. Total 8.

CHEMISTRY

- S1. Asst. Professor A. B. LAMB. — Elementary Theoretical and Descriptive Chemistry. (A.B., A.A., S.B.) 19 S.S., 1 So., 1 Fr. Total 21.
S2. Dr. G. A. HILL. — Organic Chemistry. (A.B., A.A., S.B.)
19 S.S., 1 Gr., 3 Ju., 1 So., 3 Fr. Total 27 (+ 1 Aud.).
S3. Asst. Professor G. S. FORBES. — Qualitative Analysis. (A.B., A.A., S.B.)
3 S.S., 1 So. Total 4 (+ 1 Aud.).
S4. Professor G. P. BAXTER. — Quantitative Analysis. (A.B., A.A., S.B.)
1 S.S., 2 Ju. Total 3.
S22. Dr. G. A. HILL. — Experimental Organic Chemistry. (A.B., A.A., S.B.)
4 S.S., 1 Ju., 1 So. Total 6.
S20l. Dr. G. A. HILL. — Research in Organic Chemistry. 2 S.S. Total 2.

ECONOMICS

- S1. Asst. Professor B. M. ANDERSON, Jr. — Principles of Economics. (A.A.)
4 S.S., 1 Gr. Total 5.
S2. Professor E. F. GAY. — Economic History of Europe and the United States during the Nineteenth Century. (A.B., A.A., S.B.)
8 S.S. Total 8 (+ 4 Aud.).

EDUCATION

- S3a. Dr. F. W. BALLOU (Boston School Department). — Organization and Administration of Schools and School Systems. (A.B., A.A., S.B.)
11 S.S. Total 11 (+ 3 Aud.).
S3b. Asst. Professor A. J. INGLIS. — Principles of Secondary Education. (A.B., A.A., S.B.)
10 S.S. Total 10 (+ 3 Aud.).
S3c. Mr. G. A. MIRICK (formerly Assistant Commissioner of Education in charge of Elementary Schools for New Jersey). — Elementary Education. (A.B., A.A., S.B.)
7 S.S. Total 7 (+ 3 Aud.).
S3c. Mr. G. A. MIRICK. — Elementary Education. (A.B., A.A., S.B.)
19 S.S. Total 19 (+ 1 Aud.).
S4. Dr. F. W. BALLOU (Boston School Department). — Educational Measurement. (A.B., A.A., S.B.)
8 S.S. Total 8.
S7. Dr. J. M. BREWER. — Psychological Principles of Education. (A.B., A.A., S.B.)
9 S.S., 1 Sp. Total 10 (+ 1 Aud.).
S14. Asst. Professor G. E. JOHNSON. — Child Development. (A.B., A.A., S.B.)
3 S.S., 1 Sp. Total 4.
S15. Asst. Professor A. J. INGLIS. — The Junior or Intermediate High School and Related Movements. (A.B., A.A., S.B.)
11 S.S. Total 11 (+ 5 Aud.).
S16. Dr. J. M. BREWER. — Principles of Vocational Guidance. (A.B., A.A., S.B.)
18 S.S. Total 18.

- 817a. Mr. C. S. THOMAS (Newton High School). — Teaching of English in Secondary Schools. (A.A.) 11 S.S. Total 11 (+ 8 Aud.).
- 817b. Mr. C. S. THOMAS. — Special Problems in the Teaching of English in Secondary Schools. (A.A.) 12 S.S. Total 12 (+ 5 Aud.).
818. Mr. C. D. KINGSLEY (Massachusetts Board of Education). — Social Studies in Secondary Education. (A.A.) 6 S.S. Total 6.
819. Mr. W. M. SNOW (English High School). — Teaching of Modern Languages in Secondary Schools. (A.A.) 6 S.S. Total 6 (+ 3 Aud.).
- 820c. Asst. Professor W. F. DEARBORN and Dr. W. E. FERNALD (Massachusetts School for the Feeble-Minded at Waverley). — Psychology of Mentally Deficient, Retarded, and Exceptional Children. (A.B., A.A., S.B.) 10 S.S. Total 10.

ENGLISH

- 8A. Associate Professor J. H. HANFORD (University of North Carolina). — English Composition and Methods of Teaching. (A.A.) 27 S.S. Total 27.
- 8C. Mr. ROY FOLLETT (Brown University). — English Composition (Advanced). (A.A.) 14 S.S. Total 14 (+ 1 Aud.).
867. Professor C. N. GREENOUGH. — English Composition. (A.B., A.A., S.B.) 10 S.S., 1 Ju. Total 11 (+ 3 Aud.).
83. Asst. Professor K. G. T. WEBSTER. — Anglo-Saxon. (A.B., A.A., S.B.) 4 S.S. Total 4.
845. Asst. Professor C. T. COPELAND. — History of English Literature in the Nineteenth Century. (A.A.) 10 S.S. Total 10 (+ 9 Aud.).
833. Professor C. N. GREENOUGH. — American Literature. (A.A.) 9 S.S., 1 Sp. Total 10 (+ 2 Aud.).
870. Professor J. L. LOWES (Washington University). — Shakspeare. (A.B., A.A., S.B.) 10 S.S., 1 Se., 1 So. Total 12 (+ 1 Aud.).

PUBLIC SPEAKING AND ORAL ENGLISH¹

88. Mr. C. W. CHENOWETH and Asst. Professor B. C. VAN WYE (University of Cincinnati). — Fundamentals of Speaking and Oral Reading. 14 S.S. Total 14 (+ 1 Aud.).
810. Professor E. D. SHURTER (University of Texas) and Mr. C. H. WOOLBERT (University of Illinois). — Public Speaking. 5 S.S., 1 Gr. Total 6 (+ 1 Aud.).
817. Associate Professor I. L. WINTER and Associate Professor G. McF. McKIE (University of North Carolina). — Oral English. 6 S.S. Total 6 (+ 1 Aud.).
820. Associate Professor I. L. WINTER. — Special Courses. 1 S.S. Total 1.
821. Associate Professor I. L. WINTER and Associate Professor G. McF. McKIE (University of North Carolina). — Dramatic Interpretation. 9 S.S. Total 9.

¹ Any two five-hour courses in Public Speaking may be counted as a half-course for A.B., A.A., S.B., provided no course in Public Speaking in Harvard College has been counted.

ADVANCED COURSES

- S15. Associate Professor G. McF. McKIE (University of North Carolina) and Asst. Professor B. C. VAN WYE (University of Cincinnati). — Vocal Interpretation. 6 S.S. Total 6.
- S27. Associate Professor I. L. WINTER and Dr. J. M. BREWER. — Principles and Methods in Teaching Public Speaking and Oral English. 10 S.S. Total 10 (+ 2 Aud.).

Course 88 is generally required of students taking any other course in this subject, unless they have had vocal training.

FINE ARTS

- S1a. Asst. Professor ARTHUR POPE. — Principles of Drawing and Painting. (A.B., A.A., S.B.) 8 S.S. Total 8.
- S5. Mr. CLARENCE KENNEDY (Smith College). — Italian Painters of the Middle Ages and the Renaissance. (A.B., A.A., S.B.) 6 S.S., 1 ocC. Total 7 (+ 1 Aud.).

FRENCH

- S4. Mr. G. B. WESTON. — Elementary French. (A.A.) 12 S.S., 2 Gr., 1 Fr. Total 15 (+ 2 Aud.).
- S1. Mr. E. L. RAICHE. — Second-Year College French. (A.B., A.A., S.B.) 12 S.S., 1 Gr., 1 Ju., 1 uC. Total 15 (+ 6 Aud.).
- S2. Mr. G. L. LINCOLN. — Third-Year College French. (A.B., A.A., S.B.) 3 S.S. Total 3.
- S3. Mr. E. L. RAICHE. — French Conversation. 19 S.S. Total 19 (+ 2 Aud.).

GERMAN

- S4. Dr. A. H. HERRICK. — Elementary German. (A.A.) 9 S.S. Total 9 (+ 1 Aud.).
- S3. Asst. Professor W. G. HOWARD. — German Literature of the Nineteenth Century. (A.B., A.A., S.B.) 1 S.S. Total 1.
- S4. Dr. F. W. C. LIEDER. — Second-Year College German. (A.B., A.A., S.B.) 5 S.S., 1 Gr. Total 6.

GOVERNMENT

- S1. Mr. A. C. HANFORD. — Principles of Government, especially American Government. (A.B., A.A., S.B.) 4 S.S. Total 4 (+ 2 Aud.).
- S4. Professor P. M. BROWN (Princeton University) and Professor G. G. WILSON. — Elements of International Law and Modern International Questions. (A.B., A.A., S.B.) 4 S.S. Total 4 (+ 3 Aud.).

GREEK

- SG. Professor C. H. MOORE. — Greek for Beginners. 4 S.S., 1 So. Total 5 (+ 1 Aud.).

HISTORY

81. Professor C. H. HASKINS and Professor E. F. GAY. — European History. (A.B., A.A., S.B.) 9 S.S., 1 ocC. Total 10 (+ 1 Aud.).
84. Mr. H. J. LASKI. — History of England. (A.B., A.A., S.B.) 5 S.S. Total 5 (+ 6 Aud.).
85. Professor WILLIAM MACDONALD (Brown University). — American Politics in the Nineteenth Century. (A.B., A.A., S.B.) 5 S.S., 1 Ju. Total 6 (+ 4 Aud.).
825. Professor C. H. HASKINS. — Historical Bibliography and Criticism. 8 S.S. Total 8 (+ 2 Aud.).
830. Professors A. B. HART, A. C. COOLIDGE, C. H. HASKINS, R. M. JOHNSTON, E. F. GAY, DR. JULIUS KLEIN, Mr. H. J. LASKI, Professor WILLIAM MACDONALD, Col. AZAN, Lieuts. GIRAUDOUX and MORIER, Capt. DUPONT. — Historical Aspects of the War. (A.B., A.A., S.B.) 6 S.S., 1 Se., 1 So. Total 8.
832. Professor WILLIAM MACDONALD (Brown University). — The Development of American Nationality, 1760-1917. (A.B., A.A., S.B.) 6 S.S., 1 So. Total 7 (+ 1 Aud.).
870. Professor P. M. BROWN (Princeton University) and Professor G. G. WILSON. — Factors and Problems in International Politics. (A.B., A.A., S.B.) 4 S.S. Total 4 (+ 3 Aud.).

HORTICULTURE

Mr. S. F. HAMBLIN. — Plant Study and Appreciation. 8 S.S. Total 8.

ITALIAN

81. Mr. G. B. WESTON. — Elementary Italian. (A.B., A.A., S.B.) 9 S.S., 1 Jr., 1 uC. Total 11 (+ 2 Aud.).
85. Mr. G. B. WESTON. — Modern Italian Literature. (A.B., A.A., S.B.) 8 S.S. Total 8 (+ 1 Aud.).

LATIN

81. Professor C. H. MOORE. — Latin for Teachers. (A.A.) 8 S.S., 1 So. Total 9 (+ 1 Aud.).

MATHEMATICS

- 8K. Asst. Professor DUNHAM JACKSON. — Logarithms and Trigonometry. (A.B., A.A., S.B.) 5 S.S., 4 Ju., 1 So. Total 10 (+ 2 Aud.).
- 8C. Professor MAXIME BÔCHER. — Plane Analytic Geometry. (A.B., A.A., S.B.) 3 S.S., 1 Fr. Total 4 (+ 2 Aud.).

MUSIC

81. Professor L. R. LEWIS (Tufts College). — Musical Appreciation, elementary. (A.B., A.A., S.B.) 7 S.S., 1 Ju., 1 So. Total 9 (+ 1 Aud.).
810. Professor L. R. LEWIS (Tufts College). — The Analysis of Representative Classics and Modern Compositions. (A.B., A.A., S.B.) 1 S.S. Total 1 (+ 1 Aud.).

- S15. Asst. Professor C. P. WOOD (Carleton College). — The Elements of Musical Grammar and of General Musicianship in their Application to Public School Teaching. (A.B., A.A., S.B.) 3 S.S. Total 3.

PHILOSOPHY

- S1. Asst. Professor R. F. A. HOERNLÉ. — William James and Henri Bergson. (A.B., A.A., S.B.) 5 S.S., 1 Ju., 1 uC., 1 Sp. Total 8 (+ 2 Aud.).
- S2. Asst. Professor R. F. A. HOERNLÉ. — General Problems of Philosophy. (A.B., A.A., S.B.) 8 S.S., 1 uC. Total 9 (+ 3 Aud.).

PHYSICS

- S1. Asst. Professor R. D. EVANS (Bowdoin College). — General Physics. (A.B., A.A., S.B.) 24 S.S. Total 24.

SEMITIC

- S9. Dr. H. A. WOLFSON. — Jewish Literature and Life from the Second Century to the Present Time. (A.B., A.A., S.B.) 1 S.S., 2 Ju., 1 uC. Total 4.

SOCIAL ETHICS

- S1. Asst. Professor JAMES FORD. — Contemporary Social Problems and Policies. (A.B., A.A., S.B.) 3 S.S. Total 3 (+ 2 Aud.).
- S9. Asst. Professor JAMES FORD. — Principles and Methods of War Relief. (A.A.) 9 S.S., 1 So. Total 10 (+ 1 Aud.).
- S20. Asst. Professor JAMES FORD. — Social Research. 1 S.S. Total 1.

SOCIOLOGY

- S1. Asst. Professor B. M. ANDERSON, Jr. — The Principles of Sociology. (A.B., A.A., S.B.) 4 S.S. Total 4.

SPANISH

- S1. Mr. G. L. LINCOLN. — Elementary Spanish. (A.B., A.A., S.B.) 15 S.S., 1 Ju. Total 16 (+ 1 Aud.).
- S5. Asst. Professor A. F. WHITTEM. — Spanish Prose and Poetry of the Nineteenth Century. (A.B., A.A., S.B.) 2 S.S. Total 2.
- S7. Asst. Professor A. F. WHITTEM. — Spanish Composition and Conversation. (A.B., A.A., S.B.) 11 S.S., 1 ocC. Total 12 (+ 3 Aud.).

The total number of persons in attendance was as follows: —

| | 1914 | 1915 | 1916 | 1917 |
|-------------------------------|------|------|------|------|
| Total number of students..... | 906 | 916 | 1044 | 771 |
| “ “ “ men..... | 433 | 446 | 495 | 287 |
| “ “ “ women..... | 473 | 470 | 549 | 484 |
| Percentage of men..... | 47% | 48% | 47% | 37% |

This body of students was made up as follows: —

| | 1914 | 1915 | 1916 | 1917 |
|---|-------|-------|-------|-------|
| Students at Engineering Camp ¹ | 18 | 15 | 10 | 0 |
| Harvard Students of preceding academic year: | | | | |
| Members of graduate and professional schools..... | 8 | 21 | 18 | 16 |
| Undergraduates in good standing..... | 68 | 66 | 89 | 42 |
| Undergraduates with deficient record..... | 60 | 36 | 43 | 5 |
| Special Students, Arts and Sciences..... | 0 | 0 | 0 | 5 |
| Radcliffe Students of preceding academic year.... | 16 | 9 | 12 | 29 |
| Students in Physical Education Courses..... | 230 | 215 | 218 | 190 |
| Students from outside in general courses..... | 506 | 560 | 657 | 491 |
| | <hr/> | <hr/> | <hr/> | <hr/> |
| | 906 | 922 | 1047 | 778 |
| Names counted twice..... | 0 | 6 | 3 | 7 |
| | <hr/> | <hr/> | <hr/> | <hr/> |
| | 906 | 916 | 1044 | 771 |

The composition of the group entitled "Students from outside in general courses" was as follows: —

| | 1914 | 1915 | 1916 | 1917 |
|---|-------|-------|-------|-------|
| Teachers and school officers: | | | | |
| Professors and college instructors..... | 43 | 31 | 53 | 34 |
| Normal school teachers..... | 9 | 9 | 10 | 10 |
| High school teachers..... | 99 | 88 | 116 | 91 |
| Junior high school teachers..... | 0 | 0 | 8 | 14 |
| Grade school teachers..... | 74 | 99 | 99 | 72 |
| Endowed and private school teachers.... | 44 | 59 | 53 | 35 |
| Other teachers..... | 26 | 23 | 40 | 26 |
| Superintendents, supervisors, and principals | 51 | 59 | 45 | 23 |
| | <hr/> | <hr/> | <hr/> | <hr/> |
| Total, teachers and school officers..... | 346 | 368 | 424 | 305 |
| Men..... | 142 | 128 | 145 | 87 |
| Women..... | 204 | 240 | 279 | 218 |
| Percentage of men..... | 41% | 34% | 34% | 29% |
| | <hr/> | <hr/> | <hr/> | <hr/> |
| Students from other colleges..... | 41 | 67 | 96 | 54 |
| Students from preparatory schools..... | 3 | 6 | 2 | 6 |
| Other students..... | 24 | 21 | 10 | 19 |
| Other occupation than teaching..... | 47 | 52 | 67 | 54 |
| Occupation not given..... | 45 | 46 | 58 | 53 |
| | <hr/> | <hr/> | <hr/> | <hr/> |
| | 160 | 192 | 233 | 186 |
| | <hr/> | <hr/> | <hr/> | <hr/> |
| | 346 | 368 | 424 | 305 |
| | <hr/> | <hr/> | <hr/> | <hr/> |
| Total, students from outside, general courses | 506 | 560 | 657 | 491 |
| Men..... | 230 | 242 | 276 | 179 |
| Women..... | 276 | 318 | 381 | 312 |
| Percentage of men..... | 45% | 43% | 42% | 36% |

¹ Not including Engineering Camp students who were at the time members of Harvard University.

In this body of "students from outside" there were:—

| | 1914 | 1915 | 1916 | 1917 |
|--|------|------|------|------|
| Holders of A.B., S.B., or some equivalent degree..... | 166 | 257 | 222 | 172 |
| Holders of a higher degree..... | 52 | 55 | 63 | 50 |
| Members of the Summer School in one of preceding five years..... | 80 | 171 | 102 | 94 |

The geographical distribution of this same group was as follows:

| | 1914 | 1915 | 1916 | 1917 |
|----------------------------|-----------|-----------|-----------|-----------|
| New England States..... | 295 | 367 | 346 | 308 |
| Middle States..... | 106 | 95 | 140 | 87 |
| South Atlantic States..... | 11 | 7 | 45 | 21 |
| South Central States..... | 22 | 11 | 16 | 9 |
| North Central States..... | 46 | 54 | 75 | 34 |
| Western States..... | 10 | 4 | 19 | 13 |
| Foreign Countries..... | 16 | 22 | 16 | 19 |
| | <hr/> 506 | <hr/> 560 | <hr/> 657 | <hr/> 491 |

II. COMMISSION ON EXTENSION COURSES

REPRESENTING

| | |
|--|---------------------|
| Harvard University | Boston University |
| Tufts College | Museum of Fine Arts |
| Mass. Institute of Technology | Wellesley College |
| Boston College | Simmons College |
| Massachusetts Board of Education | |
| School Committee of the City of Boston | |

The following courses were offered in 1916-17. The table shows for each course the number of students in the course and the number of certificates granted:—

| | Students | Certificates |
|--|-------------|--------------|
| Botany (Professor W. J. V. Osterhout)..... | 23 | 12 |
| Educational Psychology (Professor A. O. Norton) | 18 | 3 |
| Elementary English Composition (Mr. F. W. C. Hersey)... 268 | | 91 |
| Advanced English Composition (Professor D. L. Sharp).... 117 | | 26 |
| Nineteenth Century English Literature (Professor C. T. Copeland)..... | 267 | 26 |
| Novel and Short Story in Britain and America (Professor E. C. Black)..... | 94 | 38 |
| French (Professor James Geddes, Jr.): | | |
| Elementary..... | 35 | 9 |
| Second-Year..... | 28 | 12 |
| Geography: Commercial and Industrial (Professor Elizabeth F. Fisher)..... | 75 | 23 |
| Geology (Professor G. H. Barton): | | |
| Dynamical and Structural Geology..... | 25 | 8 |
| Mineralogy..... | 29 | 12 |
| German (Professor M. L. Perrin): | | |
| Second-Year..... | 28 | 15 |
| German Literature..... | 31 | 22 |
| European Background of American History (Professor C. H. Haakins)..... | 62 | 15 |
| International Relations and International Law (Professors A. I. Andrews and G. G. Wilson)..... | 41 | 10 |
| Appreciation of Music (Professor J. P. Marshall)..... | 136 | 20 |
| Public Speaking (Professor I. L. Winter)..... | 7 | 4 |
| Spanish (Professor E. F. Langley)..... | 56 | 20 |
| Methods of Teaching (Professor Ernest C. Moore)..... | 41 | 26 |
| Teaching and the Supervision of Teaching in Elementary Schools (Professor H. W. Holmes)..... | 30 | 6 |
| Zoölogy (Professor G. H. Parker)..... | 24 | 12 |
| | <hr/> 1,435 | <hr/> 410 |

The proportion of certificates to the total enrolment was twenty-nine per cent. All the courses were accepted for the degree of A.A. by Harvard University, Radcliffe College, Tufts College, and Wellesley College.

III

In 1916-17 sixty-seven men were registered as Special Students under the Faculty of Arts and Sciences. Nine students withdrew; the remaining fifty-eight students entered eighty-seven full courses and sixty-four half-courses, of which sixty-eight full courses and fifty-seven half-courses were completed with the following grades: A, twenty-three; B, fifty-two; C, thirty-nine; D, six; E, five. Of the fifty-eight students, fifty-two completed at least one course or half-course.

The registration and immediate supervision of the Special Students were in charge of Assistant Professor A. F. Whitten, Secretary of the Administrative Board for University Extension and for Special Students.

The number of Special Students registered November 1, 1917, was thirty-nine. Their average age was thirty years. Nine are of foreign birth. By occupation seven are teachers; eleven have no other occupation than student. Three have enrolled in four or more courses.

IV

In February, 1917, the degree of A.A. was conferred by Harvard University on

Paul Alexander Kober

At Commencement, 1917, the degree of A.A. was conferred by Harvard University on

Edward Joseph Colgan, Jr.

Melkisedeg Moorad

Arthur J Phillips

Arthur Wilson Tarbell

and by Radcliffe College at Commencement on

May Amanda Blake

Mary Edna Cherrington

Mary Ellen Keyes

Marjorie Williams.

JAMES HARDY ROPES, *Dean*.

RADCLIFFE COLLEGE

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — I have the honor to submit the report of Radcliffe College for the academic year 1916-17.

The number of students in actual attendance during the year was 697.

| | |
|----------------------------|-----|
| Graduate Students..... | 142 |
| Seniors..... | 101 |
| Juniors..... | 122 |
| Sophomores..... | 100 |
| Freshmen..... | 116 |
| Special Students..... | 71 |
| Unclassified Students..... | 45 |
| | — |
| Total..... | 697 |

The number of teachers who are given free tuition by Radcliffe College, because Radcliffe students are allowed to do practice teaching in certain schools, was eighteen. Arlington, Brookline, and Cambridge sent five each, Newton sent two teachers, and Belmont one. Of these eighteen teachers, seven elected Harvard courses, and eleven took courses at Radcliffe College.

The number of graduate students was somewhat larger than for the preceding year — one hundred and forty-two. Forty-five of these were Radcliffe graduates. Wellesley College sent fifteen; Smith College, fourteen; Vassar, eleven, and Bryn Mawr, six. The others came from thirty-nine different colleges.

Thirty-five students were admitted to eighteen full courses, and sixty-seven students to thirty-one half-courses of the "Courses Primarily for Graduates in Harvard University open to competent students of Radcliffe College." These figures are interesting, as the previous year, to both whole courses and half-courses, the total number of students admitted was seventy-four.

At Commencement in June, 1917, four students received the degree of Associate in Arts. One hundred students received the degree of Bachelor of Arts, twenty-five *cum laude*, thirteen *magna cum laude*, and one *summa cum laude*. The degree of Master of Arts was conferred on twenty-nine candidates. Nine of these had taken their first degree from Radcliffe College, while the rest rep-

resented fifteen different colleges. Three candidates received the degree of Doctor of Philosophy, as follows:—

Mary Florence Curtis, A.B. (*Wellesley College*) 1906, A.M. (*Radcliffe College*) 1915, in the special field of Geometry.

Frances Isabella Hyams, A.B. (*Radcliffe College*) 1912, A.M. (*ibid.*) 1913, in the special field of English Philology.

Caroline Frances Tupper, A.B. (*Radcliffe College*) 1909, A.M. (*ibid.*) 1910, in the special field of English Philology.

At mid-years one degree of Bachelor of Arts was conferred.

The entrance examinations of the College Entrance Examination Board were held in 1917 in the Radcliffe gymnasium. The following figures show the results:—

| | | |
|--|----|-----|
| Admitted without condition by Old Plan..... | 26 | |
| Admitted without condition by New Plan..... | 54 | |
| | — | |
| | 80 | |
| Admitted with condition..... | 21 | |
| Total admitted..... | | 101 |
| Refused admission by Old Plan..... | 29 | |
| Refused admission by New Plan..... | 18 | |
| | — | |
| Total refused admission..... | | 47 |
| | — | |
| | | 148 |
| Candidates taking examinations both in June and September and counted twice..... | | 9 |
| | | — |
| Total number of final candidates..... | | 139 |

The Caroline I. Wilby Prize, for the best original work in any department, was awarded to Caroline Frances Tupper, A.B. 1909, A.M. 1910, Ph.D. 1917, for her Doctor dissertation, "Oliver Goldsmith as a Critic." The Captain Jonathan Fay Diploma and Scholarship were given to Harriet Chenery Bonney, of the Class of 1917. Miss Bonney also received honorable mention for the George B. Sohler Prize. Two prizes offered by the Woman's Peace Party were won by Radcliffe students, Helen Constance White, A.B. 1916, A.M. 1917, and Lillian Adlow, of the Class of 1918.

The list of first and second group scholars is three less than the same list last year, and the proportion also is lower.

The members of the Academic Board for 1916-17 were Professor K. G. T. Webster (*Chairman*), and Professors E. L. Mark, H. S. White, E. H. Hall, H. W. Smyth, A. A. Howard, G. L. Kittredge, C. H. Grandgent, W. S. Ferguson.

The Associate for a term of three years on the nomination of the Alumnae Association is Sarah Maria Dean, 1895. Miss Dean is serving her second term as one of the three representatives of the Alumnae. On the Board of Associates of Radcliffe College there are always three professors of Harvard College who serve for a term of three years, and who are not eligible for reelection. Professor Day's term expired in June, and Professor George Shannon Forbes was elected to take his place. The Associates reelected Mr. John Farwell Moors member of the Council for a term of seven years from 1917.

The College is planning to have for the coming year an Appointment Bureau for Radcliffe students, past and present. This Bureau is to join in one office the work of filling teaching positions, which up to this time has been handled in the Dean's office, with the former work of the Bureau of Occupations. Eva Alberta Mooar, A.B. 1908, A.M. 1913, has been appointed the Director.

Morning prayers during the year were conducted by Rev. James Hardy Ropes, D.D., Rev. Albert Parker Fitch, D.D., Rev. George Hodges, D.D., Rev. William Wallace Fenn, D.D., Rev. Kirsopp Lake, D.D., Rev. Samuel McChord Crothers, D.D., Rev. Frederick May Eliot, and the Dean. When Mr. Ropes left in the middle of the year to go to the West as Exchange Professor, Mr. Fitch took his place. The College was glad to have this last chance to hear Mr. Fitch before he left Cambridge to take up his new work.

There have been many gifts to the College during the year. The largest bequest was securities and cash from the estate of Mrs. Abigail W. Howe to the value of \$254,000. Among the other gifts we have received additions to the fence and gate fund from nine different donors. From the Alumnae Association has come \$3491.69 for the Alumnae Scholarship Fund. Because of this gift the scholarship offered by the Alumnae Association has been increased by \$100. The holder for the year 1916-17 is the first one to receive this larger amount. Additions have been made also to two other funds, the Margaret Rae Ingols Scholarship and the loan fund established by Judge and Mrs. Mack. From the estate of Miss Helen Collamore the College has received the balance of the bequest, \$12,363.97. The Division of Modern Languages and the Department of English presented to the College \$133.33, received by the examiners of Radcliffe candidates for Honors and Distinction in June, 1916, to be used for the library for the purchase of books in modern literature. Four hundred and fifty dollars was received from the Class of 1892 for the Mary Coes Memorial

Fund, and \$1065.58 from the Class of 1914 for this same fund. For the general endowment fund of the College the Class of 1902 gave \$1500, and the Class of 1907 a \$1000 Liberty Bond. The Class of 1916 gave \$200 for a section of wall in which there is to be a tablet marked "The Gift of the Class of 1916."

Two additions have been made to the real estate holdings of the College, 4 Garden Street and 73 Brattle Street. Only the second of these is to be used for college purposes at present.

Because of a special case which brought the question before the Academic Board, the following vote was passed in May:

"That the Academic Board will recommend to the Council of Radcliffe College candidates accepted by the Board for the degree of Ph.D. in Medical Sciences for work certified by the Division as equivalent to work for which the degree of Ph.D. in Medical Sciences is given in Harvard University."

By the exchange system which Harvard College has with certain Western colleges Miss Grace A. Stayt, the Dean of Women at Knox College, was given a half-year's leave of absence for work in Cambridge, and Radcliffe College was glad to have an opportunity of offering to her the freedom of its courses.

BERTHA M. BOODY, *Dean.*

APPENDIX

REPORT OF THE CHAIRMAN OF THE COMMITTEE ON ADMISSION

Applications for Admission to the Freshman Class by Examination

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I have the honor to submit to you my report as Chairman of the Committee on Admission.

During the past year, 1916-17, the Committee have acted upon nine hundred and four applications for admission to Harvard College and forty-seven applications for permission to attend various courses of instruction under the Faculty of Arts and Sciences. The action of the Committee upon applications for admission to Harvard College is summarized in the following tables, in which, for purposes of comparison, are given the corresponding tables for 1915-16:—

Applications for Admission to the Freshman Class

In these tables are included for convenience the men who were excused from final examinations in 1917 on grounds of war service. Their cases are considered separately later in the report.

| | 1916 | 1917 |
|--|------|------|
| Admitted without conditions (Old Plan)..... | 277 | 168 |
| “ “ “ (New Plan)..... | 242 | 288 |
| Total number admitted without conditions... | 519 | 456 |
| Admitted with conditions (Old Plan)..... | 167 | 121 |
| Total number admitted..... | 686 | 577 |
| Refused admission (Old Plan)..... | 115 | 73 |
| “ “ (New Plan)..... | 105 | 81 |
| Total refused admission..... | 220 | 154 |
| Percentage of refusal..... | 22.8 | 20.7 |
| Candidates in June who did not appear in September..... | 58 | 12 |
| Total number of final candidates..... | 964 | 743 |

Applications for Admission from Other Colleges

| | 1916 | 1917 |
|--|-------|-------|
| Admitted as Unclassified Students..... | 197 | 123 |
| " " Sophomores..... | 1 | 0 |
| " " Juniors..... | 2 | 0 |
| <hr/> | <hr/> | <hr/> |
| Total number admitted..... | 200 | 123 |
| Refused admission..... | 59 | 38 |
| <hr/> | <hr/> | <hr/> |
| Total number of applicants..... | 259 | 161 |

In the figures given, no account is made of the men who were refused permission to take examinations by the New Plan. A full report of the New Plan applicants for the past two years is as follows:—

| | 1916 | 1917 |
|--|------|------|
| Total number of school records presented..... | 496 | 463 |
| " " " " " approved..... | 428 | 431 |
| " " " men examined..... | 347 | 347 |
| " " " admitted..... | 242 | 288 |
| " " " refused on their school records | 68 | 32 |
| " " " " after examination ... | 105 | 81 |

The figures given above show a large decrease in the number of applicants for admission. This decrease is largely accounted for by the War; but there is one other reason for a smaller number of final candidates this year — namely, a stricter definition of those who have been listed in the tables above as final candidates. Up to this year, we have had no good definition of final candidates under the Old Plan. We listed as such any boy who registered as a final candidate. Many boys applied for admission who had no better basis for their action than a wish to enter College. From the point of view of admission requirements, their laziness, negligence, or simple dullness made them properly considerable, if considerable at all, merely as preliminary candidates — that is, candidates who needed at least one more year of school work before coming to College. Last year, the Faculty, on recommendation of the Committee on Admission, added the following rule to the general regulations governing admission:—

Every candidate for admission under the Old Plan is required to furnish with his application for admission an official statement of his preparation; and no such candidate will be regarded as a final candidate unless it clearly appears by his record that he will have at the time he takes his examinations a preparation which may fairly be presumed to cover a school course sufficient for admission by the Old Plan.

This rule has led candidates to file applications for admission earlier in the year; and the submission of school records has enabled the Committee to forestall misunderstandings and mistakes, and to make a clearer line of division between final and preliminary candidates. In comparing, therefore, the numbers of candidates for 1916 and 1917, it should be borne in mind that owing to this improvement in admission machinery the

number of final candidates for 1917 does not include some men who would have been classed as final candidates according to methods used in 1916. This year, there were seventy-eight applicants whose records clearly showed in advance of examinations that they had no chance of admission this year, and that they should not be regarded as final candidates. Our totals, therefore, for this year represent a better selected number of candidates; and this, in turn, accounts for a slightly smaller percentage of refusal.

The greatest factor in the diminution of applicants this year was, naturally, the War. The decision of the country to enter into the War came at a time when young men were making their final preparations for college examinations; and many abandoned their school work for various kinds of war service. To meet a very difficult situation, the Faculty enlarged the powers of the Committee by conferring upon them the discretion granted by the following votes:—

1. That final candidates for admission to Harvard College who expect to enter the military or naval service before the June examinations may present their full school records to the Committee on Admission, who will issue certificates of admission on trial in those cases which seem to justify it. Such certificates will be valid only if the candidate is called out before June 24, 1917, and if he enters College within a year after receiving his honorable discharge from the service.
2. That the Committee on Admission be authorized to deal with any exceptional cases of candidates for admission with special qualifications or with special opportunity to enter forms of service useful to the public other than military, naval, or ambulance service.

Under the powers conferred by these votes, the Committee received seventy-one petitions for exemption from final examinations because of war service of various kinds. Of these petitions, forty-three were granted and twenty-eight refused. Of the forty-three whose petitions were granted, seven, owing to changes in their plans, did not avail themselves of the privilege granted them, but took examinations in the usual way, and were admitted. Of the remaining thirty-six, fifteen are now in the Army or Navy, and presumably will not enter College until the War is over. One worked for the Red Cross up to the opening of College; five have obtained furloughs from the Naval Reserve to continue their education; and the remaining fifteen were employed in some form of farm service.

The most doubtful petitions were those to be excused from examinations because of farm service. In the first enthusiasm of the opening days of the War, many young men abandoned the work which they were doing, and rushed into other kinds of work for which they were in no way qualified. The situation created an expectation that the College would set aside its intellectual requirements and substitute a willingness to hoe potatoes for proved ability in those studies that precede College work. To many, "exemption from examinations" meant exemption from the knowledge or training that the examinations represented. The Committee, of course, took no such view of the situation, and exempted no one from examinations unless he had received a diploma from his school, unless he was cordially recommended by his teachers, and unless his record

was in general such as to create a reasonable presumption that he would be able to pass the examinations were he not prevented from taking them by the war service in which he was engaged.

The tables above show that the number of men admitted this year by the New Plan practically equals the number admitted by the Old Plan — two hundred and eighty-eight against two hundred and eighty-nine. Last year, the number admitted by the New Plan was only thirty-five per cent of the whole number. This apparent increase in the use of the New Plan is probably more apparent than real; for the loss in candidates this year was chiefly among the schools of New England, and particularly among those of the so-called "preparatory" type, from which boys enter chiefly by the Old Plan. The following table will show that the loss occurred chiefly in New England, and that the numbers of men admitted from districts outside of New England are about the same as usual. Among the men actually entering, the percentage of men from outside New England is slightly greater than that of last year.

| | 1916 | 1917 |
|---|------|------|
| New England..... | 485 | 389 |
| North Atlantic (including New England)..... | 556 | 451 |
| South Atlantic..... | 9 | 9 |
| Western..... | 8 | 12 |
| North Central..... | 49 | 40 |
| South Central..... | 6 | 0 |
| Foreign..... | 1 | 1 |
| Insular Territories and Dependencies..... | 4 | 2 |

There was a large decrease also, as was to be expected, in the number of applicants for admission from other colleges, as shown in the tables already given. Of the one hundred and twenty-three men admitted this year, seventy-four have actually registered; and these men represent fifty-four different colleges, twenty-six states, and three foreign countries. Of the men who entered Harvard as Freshmen after examination, only a little over twenty per cent come from outside New England. Of the men who entered Harvard from other colleges, over sixty-three per cent come from outside New England.

This year was the second year in which we had no papers of our own, but used the papers of the Board, and for all Old Plan candidates the grades of the Board readers. As our first exclusive use of the Board grades in 1916 revealed some differences between the grading of the Board readers and the former grading of Harvard papers, we looked forward with apprehension to the results of the June examinations. There were this year, as last year, large numbers of failures in English, History, and German. In Mathematics, the subject which gave us the most trouble last year, the percentages of failure seemed fairly normal.

In acting on the percentages given by the Board readers, the Committee used sixty per cent as the lowest passing grade under normal circumstances. No preliminary candidate was given credit for a subject unless he attained in it sixty or higher. No final candidate was given credit for a subject in which he attained less than sixty per cent unless his total record was such as to convince the Committee that he should be admitted to College. If a candidate's record as a whole was one on which

the Committee felt he should be admitted, he was credited in a subject in which he was graded between fifty and sixty, provided his school record in that subject was good. Among those who are acquainted with the grading done by Board readers, there is a difference of opinion as to the proper percentage to use as a passing grade. Some colleges, like Harvard, Yale, and Princeton, use sixty; and others use fifty. It seems to the Committee that sixty is none too high a percentage to use as a passing grade wherever the only question to be settled is a question of credit for a specific admission subject, but that grades as low as fifty may properly be recognised where the question is a question not only of credit for a subject but of admission to College in a given year, always provided that such recognition is based on positive evidence of good scholarship in the total record of a candidate and his school record in the subject in which he receives a grade between fifty and sixty. By using this method, the Committee attained results very similar to those of former years.

I am glad to report that the New Plan, now in the seventh year of its trial, still seems to justify itself by bringing to us students of good quality, many of whom would have been prevented from entering under the Old Plan of admission. In 1915, when the Committee made to the Faculty an extended report on the workings of the New Plan, they showed that as tested by College work of the first year even those New Plan men who had unsatisfactory examination records, but who were admitted because of other evidence, had better College records than the average of the class, and than those Old Plan men who were admitted without conditions. A similar investigation of the first year's work of the New Plan men admitted in 1916 shows that the men admitted by the New Plan still maintained such a record for high scholarship. A comparison of their College grades with those of men admitted by the Old Plan shows that they received more honor grades and fewer unsatisfactory grades than Old Plan men. As the number of men admitted by this Plan increases, it is to be expected that the average grade of their scholarship will become lower; but certainly that time has not yet arrived.

In our experience during the past six years in admitting men by the New Plan, it has very clearly been shown that examination results, taken by themselves, are no sure indication of a candidate's ability to do College work. The statistics which we have gathered concerning the relation between admission examinations and College work suggest that the measure which we have used this year as a war measure might profitably be extended in its application. Certainly, the whole course of our experience shows that we can never hope to have more than insignificant numbers of students from outside New England so long as we make as a necessary part of an admission record examinations which often bear but little relation to the work done before and after admission to College. A method of admitting upon record, carefully restricted, after a manner analogous to the methods we pursue with men admitted from other colleges, would, in all probability, greatly widen our representation, and raise the average of our scholarship.

I add certain tables of statistics which the Committee are accustomed to gather year by year.

JOHN GODDARD HART,
Chairman of the Committee on Admission.

Average Ages at Opening of College Year

| OLD PLAN CANDIDATES | | | |
|----------------------------|-------|-------|--|
| | 1916 | 1917 | |
| Admitted clear | 18.35 | 18.26 | |
| " with conditions | 18.82 | 18.68 | |
| Refused admission | 19.23 | 19.14 | |

| NEW PLAN CANDIDATES | | | |
|-------------------------|-------|-------|--|
| | 1916 | 1917 | |
| Admitted | 18.42 | 18.44 | |
| Refused admission | 18.83 | 18.54 | |

Table Representing the Grades Attained in College Courses by Men Admitted in 1915 and 1916

| | Old Plan | | New Plan | | College Grades of Freshmen Percent | | | |
|-------|-------------|--------------|-----------|--------------|------------------------------------|---------------------|---------------------|---------------------|
| | 1915-16 | 1916-17 | 1915-16 | 1916-17 | Old Plan 1915-16 | Old Plan 1916-17 | New Plan 1915-16 | New Plan 1916-17 |
| A.... | 122½ | 124½ | 162 | 176½ | 5.7 | 6.5 | 17.2 | 16.3 |
| B.... | 432½ | 404 | 313½ | 346 | 20.1 | 21.2 | 33.4 | 32.1 |
| C.... | 1,042 | 877½ | 360½ | 431 | 48.4 | 46.0 | 38.4 | 40.3 |
| D.... | 438 | 404½ | 88 | 105½ | 20.3 | 21.2 | 9.8 | 9.7 |
| E.... | 114 | 94 | 14 | 17½ | 5.3 | 4.9 | 1.4 | 1.6 |
| | <hr/> 2,149 | <hr/> 1,904½ | <hr/> 938 | <hr/> 1,076½ | | | | |

Table Showing the Grade of College Work Done by Those New Plan Candidates Who Were and Those Who Were Not Examined at Admission in Subjects Which They Afterwards Took in College, with the Corresponding Figures for Men Admitted by the Old Plan

(The courses used are German 1a, 1b, 2a, and 2b, French 1 and 2, History 1, Mathematics A, Physics C, and Chemistry B, all of which courses presuppose school work. The averages given below are computed by assigning the following values to each grade: A, 5; B, 4; C, 3; D, 2; E, 1.)

| | A | | B | | C | | D | | E | | Total | | Average Grade | |
|---|------|------|------|------|------|------|------|------|------|------|-------|------|---------------|------|
| | 1916 | 1917 | 1916 | 1917 | 1916 | 1917 | 1916 | 1917 | 1916 | 1917 | 1916 | 1917 | 1916 | 1917 |
| New Plan men not examined in these subjects | 18 | 14 | 36 | 32 | 52 | 51 | 13 | 21 | 3 | 5 | 122 | 123 | 3.4 | 3.3 |
| New Plan men examined in these subjects | 26 | 40 | 43 | 47 | 46 | 61 | 11 | 14 | 1 | 3 | 127 | 165 | 3.6 | 3.6 |
| Old Plan men admitted without conditions | 36 | 23 | 101 | 90 | 173 | 147 | 72 | 68 | 26 | 19 | 408 | 347 | 3.1 | 3.0 |
| Old Plan men admitted with conditions. | 4 | 6 | 24 | 19 | 88 | 85 | 67 | 43 | 16 | 13 | 199 | 166 | 2.6 | 2.7 |

Percentages of Candidates from Various Kinds of Schools in 1916 and 1917

ADMITTED

| | Old Plan | | New Plan | | Total | |
|-----------------------------|----------|------|----------|------|-------|------|
| | 1916 | 1917 | 1916 | 1917 | 1916 | 1917 |
| Public Schools..... | 28.8 | 25.9 | 69.4 | 54.7 | 43.1 | 40.2 |
| Private or Endowed Schools. | 71.1 | 74.0 | 30.5 | 45.2 | 56.8 | 59.7 |

REFUSED

| | | | | | | |
|-----------------------------|------|------|------|------|------|------|
| Public Schools..... | 46.4 | 38.3 | 82.8 | 77.7 | 63.9 | 59.0 |
| Private or Endowed Schools. | 53.5 | 61.6 | 17.1 | 22.2 | 36.0 | 40.9 |

ADMITTED AND REFUSED

| | | | | | | |
|-----------------------------|------|------|------|------|------|------|
| Public Schools..... | 32.4 | 28.5 | 73.4 | 59.7 | 48.1 | 44.3 |
| Private or Endowed Schools. | 67.5 | 71.4 | 26.5 | 40.2 | 51.8 | 55.6 |

Table Showing Geographical Distribution of Candidates, Admitted and Refused, Old and New Plans, According to Schools, in 1916 and 1917

| | Public | | Private and Endowed | | Total | | | |
|---|--------|-------|---------------------|-------|-------|-------|------|------|
| | 1916 | 1917 | 1916 | 1917 | 1916 | 1917 | 1916 | 1917 |
| New England..... | 298 | 203 | 375 | 322 | 673 | 525 | 74.3 | 71.8 |
| North Atlantic, including New England.... | 355 | 255 | 425 | 365 | 780 | 620 | 86.1 | 84.7 |
| South Atlantic..... | 6 | 3 | 9 | 13 | 15 | 16 | 1.6 | 2.1 |
| Western..... | 11 | 14 | 3 | 1 | 14 | 15 | 1.5 | 2.0 |
| North Central..... | 57 | 48 | 22 | 23 | 79 | 71 | 8.7 | 9.7 |
| South Central..... | 5 | 3 | 5 | 2 | 10 | 5 | 1.1 | .6 |
| Foreign..... | | | 2 | 1 | 2 | 1 | .2 | .1 |
| Insular Territories and Dependencies..... | 2 | 1 | 3 | 2 | 5 | 3 | .5 | .4 |
| | <hr/> | <hr/> | <hr/> | <hr/> | <hr/> | <hr/> | | |
| | 436 | 324 | 469 | 407 | 905 | 731 | | |

Geographical Distribution of Men Who Have Entered Harvard from Other Colleges

| | 1916 | 1917 | | 1916 | 1917 |
|----------------------------------|------|------|---|------|------|
| NORTH ATLANTIC DIVISION:— | | | NORTH CENTRAL DIVISION:— | | |
| New Hampshire..... | 2 | 0 | Iowa..... | 2 | 1 |
| Vermont..... | 0 | 1 | Ohio..... | 6 | 7 |
| Massachusetts..... | 25 | 23 | Indiana..... | 2 | 1 |
| Connecticut..... | 3 | 2 | Michigan..... | 2 | 0 |
| Maine..... | 1 | 1 | Nebraska..... | 0 | 2 |
| Rhode Island..... | 1 | 0 | Illinois..... | 7 | 1 |
| | — | — | Minnesota..... | 1 | 0 |
| Total New England | 32 | 27 | Missouri..... | 2 | 2 |
| | | | Wisconsin..... | 1 | 1 |
| New York..... | 11 | 7 | Kansas..... | 1 | 2 |
| New Jersey..... | 6 | 2 | | — | — |
| Pennsylvania..... | 5 | 6 | | 24 | 17 |
| | — | — | | | |
| | 54 | 42 | | | |
| SOUTH ATLANTIC DIVISION:— | | | SOUTH CENTRAL DIVISION:— | | |
| North Carolina..... | 1 | 1 | Tennessee..... | 0 | 1 |
| South Carolina..... | 2 | 0 | Alabama..... | 1 | 1 |
| Maryland..... | 1 | 0 | Kentucky..... | 0 | 1 |
| District of Columbia.. | 5 | 2 | Oklahoma..... | 1 | 1 |
| Virginia..... | 1 | 1 | Mississippi..... | 1 | 1 |
| | — | — | | — | — |
| | 10 | 4 | | 3 | 5 |
| WESTERN DIVISION:— | | | INSULAR TERRITORIES AND DEPENDENCIES:— | | |
| Utah..... | 0 | 1 | Alaska..... | 0 | 1 |
| Colorado..... | 3 | 0 | | | |
| Oregon..... | 1 | 0 | FOREIGN:— | | |
| California..... | 6 | 0 | Japan..... | 2 | 0 |
| Washington..... | 3 | 1 | China..... | 2 | 1 |
| Montana..... | 2 | 0 | England..... | 0 | 1 |
| Idaho..... | 2 | 0 | France..... | 0 | 1 |
| | — | — | Canada..... | 3 | 0 |
| | 17 | 2 | | — | — |
| | | | | 7 | 3 |
| Total..... | 115 | 74 | | | |

Percentages of Passing Grades in 1917

| | Percentages of candidates receiving passing grades in Harvard examinations 1916 | Percentages of Harvard men in Board examinations receiving 60-100% 1916 1917 | | Percentages of all Board candidates receiving 60-100% 1917 |
|---------------------------------------|---|--|------|---|
| <i>Elementary</i> | | | | |
| English..... | 64.8 | 42.4 | 36.7 | 38.7 |
| Greek..... | 73.3 | 67.3 | 77.0 | 77.7 |
| Latin..... | 67.8 | 67.4 | 67.3 | 77.7 |
| German..... | 61.1 | 58.6 | 49.0 | 49.8 |
| French..... | 72.9 | 79.9 | 61.2 | 59.7 |
| History (Ancient)..... | 69.4 | 44.7 | 47.5 | 37.3 |
| Algebra..... | 77.2 | 34.9 | 60.8 | 60.5 |
| Plane Geometry..... | 79.0 | 43.6 | 66.1 | 60.6 |
| <i>Advanced</i> | | | | |
| Greek..... | 84.8 | 75.8 | 86.0 | 77.2 |
| Latin..... | 75.4 | 79.5 | 72.0 | 60.6 |
| German..... | 53.6 | 43.0 | 37.5 | 35.9 |
| French..... | 66.6 | 71.5 | 46.0 | 42.3 |
| Algebra..... | 55.2 | 35.2 | 71.0 | 74.3 |
| Solid Geometry..... | 61.8 | 31.8 | 55.1 | 51.2 |
| Logarithms and Trigo- nometry..... | 63.4 | 60.2 | 74.1 | 76.7 |

*Table Showing the Grade of College Work of Freshmen Admitted by the
Old and New Plans*

(These statistics are based on the final grades for the Freshman year)

| | Percent A and B | | Percent A, B, C | | Percent D | | Percent E | |
|-------------------------|--------------------|------|--------------------|------|--------------|------|--------------|------|
| | 1916 | 1917 | 1916 | 1917 | 1916 | 1917 | 1916 | 1917 |
| Admitted, New Plan ... | 50.6 | 48.5 | 89.1 | 88.5 | 9.3 | 9.7 | 1.4 | 1.6 |
| Admitted, Old Plan: | | | | | | | | |
| Without conditions .. | 29.8 | 32.4 | 77.7 | 77.8 | 17.6 | 18.2 | 4.5 | 3.9 |
| With conditions | 17.7 | 18.4 | 67.2 | 65.9 | 25.8 | 27.1 | 6.9 | 6.9 |

REPORT OF THE DEPARTMENT OF HYGIENE

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I have the honor of submitting a report of the activities of the third year of this department.

At the beginning of the academic year 1916-17 the Freshman Physical Examinations were held as usual. Each year brings additional confirmation of the importance of these examinations, to which more extended reference has been made in earlier reports. This year not only the Freshmen, but, by vote of the Faculty, all men matriculating for the first time in Harvard College were also examined. In addition to the usual physical examination, Dr. Lloyd T. Brown made careful studies of the feet and posture of the students, which formed the basis of an extensive monograph on the normal posture and normal feet in young men. It is hoped that such studies as these will furnish a foundation for rather definite advice in regard to physical exercise to students in the University. It was found that the large majority of the students examined were equipped with reasonably good feet, but, on the other hand, a large majority habitually assumed a poor posture. It would seem that this posture could be easily corrected by simple means.

As in the past the follow-up system of all defects noted in any of the examinations was carried out, and a general close supervision of the physical condition of these students maintained. The experience has now been sufficiently large so that it is possible to state positively what is normal and what is abnormal in the average student. Our findings have compelled us to adopt standards of normality that are radically different from those ordinarily accepted. An interesting example is found in the presence of albumin in the urine, which is often accepted as a sign of severe kidney disease or Bright's Disease. Our experience has shown that the presence of albumin in young men is usually of no significance, and by no means denotes the presence of a severe kidney disease. Such findings have been duly set forth in the appropriate lay and scientific journals.

Along somewhat similar lines our studies of the effect of athletics have been continued throughout the year. Our particular point of attack has been the relation of the size of the heart to long continued athletic competition, particularly rowing. These studies, although as yet incomplete, have so far failed to confirm the popular conception that the athletic heart is a common ailment, and that competitive rowing, as carried out by the system in vogue at Harvard, has so far as we know caused no enlargement of the heart or apparently any detrimental effect.

During the year, with the assistance of Mr. M. C. Whipple, the Sanitary Inspector of the University, the food products, including water, milk and the like, and the sanitary arrangements of the University dining halls have been carefully supervised and necessary changes, as indicated by repeated examinations, have been made. It is our hope to extend this particular service very greatly, and to enlarge its scope to embrace all of the sanitary problems in regard to the living conditions of the entire student body in Cambridge. At the present time, a small beginning has

been made in that direction, but plans are under way for a comprehensive sanitary survey of the entire University.

The immediate care of the sick students of the University has, as usual, been under the charge of Dr. M. H. Bailey, whose report follows.

Throughout the year military matters have inevitably been prominent in the University, and it has been the pleasure and privilege of this department to coöperate with the men in charge of the military instruction. The department has examined all applicants for enrolment in the R.O.T.C. of the University, both when the Training Corps was restricted to University students and when that restriction was removed. Furthermore, many students asked and received advice concerning their patriotic obligations, in view of their physical condition. That particular feature seemed of very great importance. The department offered to vaccinate any student against smallpox and to give the preventive inoculations against typhoid and para-typhoid fevers. This offer was very widely accepted, not only by students in the R.O.T.C. and students who were leaving for service abroad in ambulance work, etc., but by many others.

During the year the Professor of Hygiene held his usual office hours for consultation with the students on various problems. His course in Hygiene was given in the second half-year and taken by over 250 students. Early in May he was ordered abroad for active service with a base hospital, and the necessary preparation of this report in France doubtless makes it more incomplete than would otherwise be the case.

ROGER I. LEE, *Professor of Hygiene.*

REPORT OF THE MEDICAL ADVISER

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I have the honor to present the report of illness among Harvard students for the academic year 1916-17.

Table III shows a considerable increase in the number of patients cared for at the Stillman Infirmary. This increase over the total for the preceding year is more than accounted for by the difference in the number of cases of German Measles for the two years. The German Measles total for 1916-17 presents the largest number of any single contagious disease since the first appointment of a "Medical Visitor" (Dr. George W. Fitz) about twenty-five years ago. The spread of German Measles is exceedingly difficult to control because its attack is often accompanied by such slight symptoms of discomfort that many cases fail to consult a physician and continue to pursue their usual activities regardless of the welfare of others. Of the nineteen cases of appendicitis treated at the Stillman Infirmary all made good recoveries. Of the three deaths at the Infirmary two were from pneumonia, and the third from sarcoma. Only one other death during the academic year was reported. The cause of this death was endocarditis.

The Medical Adviser acted as surgeon to the students of the R.O.T.C. while they were in Cambridge, from the time of the organization of the Corps in April until it was disbanded in August. While at Wakefield the

Corps was under the care of Dr. E. A. Darling and several other Cambridge physicians. Dr. George P. Cogswell was surgeon to the Corps during the weeks of training at Barre. All of these physicians gave their services.

I desire to acknowledge with much appreciation gifts to the Infirmary of books and periodicals as follows:—

The Harvard Crimson, two copies daily.

The Graduates' Magazine.

From a fund given by Mr. H. B. Arnold of Pasadena, California, *The Literary Digest*.

From Dr. B. A. G. Fuller, *Century*, *Collier's*, *Cosmopolitan*, *Harper's Monthly*, *Life*, *The London Illustrated*, *Munsey*, *Review of Reviews*, *Scribner's*.

MARSHALL H. BAILEY, *Medical Adviser*.

TABLE I.—ILLNESS REPORT, 1916-17

| Diseases | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | Total |
|-------------------------------------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|
| Abscesses | 1 | 1 | 4 | .. | 3 | 1 | 2 | 2 | .. | .. | 14 |
| Appendicitis | .. | 4 | 3 | 2 | 5 | 2 | 3 | 3 | 2 | .. | 24 |
| Asthma | .. | .. | 1 | 1 | .. | 1 | .. | .. | .. | .. | 3 |
| Bronchitis | .. | 4 | 5 | 2 | 10 | 4 | 5 | 3 | .. | .. | 38 |
| Chicken-pox | .. | .. | .. | .. | 5 | 2 | 2 | .. | .. | .. | 9 |
| Colds—unclassified | .. | 20 | 35 | 33 | 56 | 21 | 36 | 16 | 7 | 2 | 226 |
| Coryza | .. | 5 | .. | 1 | 7 | 6 | 15 | 4 | .. | .. | 38 |
| Diarrhoea | 1 | 1 | 1 | 3 | .. | .. | 1 | .. | .. | .. | 7 |
| Diphtheria | 1 | .. | 1 | .. | .. | .. | 1 | 1 | .. | .. | 4 |
| Ear, of the | .. | 1 | 4 | 2 | 8 | 5 | 7 | 2 | .. | .. | 29 |
| Eye, of the | 2 | 8 | 14 | 11 | 14 | 22 | 24 | 29 | 7 | 3 | 134 |
| General Debility | .. | 1 | 17 | 9 | 7 | 7 | 9 | 11 | .. | 1 | 62 |
| German Measles | .. | .. | .. | .. | .. | 13 | 113 | 114 | 10 | .. | 250 |
| Grippe | .. | 8 | 12 | 22 | 94 | 36 | 28 | 8 | 5 | .. | 213 |
| Heart, of the | .. | 2 | 2 | .. | 1 | 1 | 1 | .. | 2 | .. | 9 |
| Indigestion | .. | 6 | 6 | 9 | 12 | 10 | 6 | 4 | 1 | 4 | 58 |
| Infantile Paralysis | .. | 1 | .. | .. | .. | .. | .. | .. | .. | .. | 1 |
| Infections, localized | 2 | 8 | 14 | 3 | 12 | 6 | 4 | 4 | 1 | 1 | 55 |
| Insomnia | .. | .. | .. | 1 | 1 | .. | .. | .. | .. | 1 | 3 |
| Jaundice | 1 | 1 | .. | 2 | 3 | 1 | 4 | 1 | .. | .. | 13 |
| Laryngitis | .. | 1 | .. | 3 | 3 | 1 | 3 | 1 | .. | .. | 12 |
| Lumbago | .. | .. | 1 | .. | .. | 1 | .. | .. | .. | .. | 2 |
| Malaria | 1 | 1 | .. | .. | .. | .. | .. | .. | .. | .. | 2 |
| Measles | .. | .. | .. | .. | .. | 5 | 8 | 6 | 3 | 1 | 23 |
| Miscellaneous Med. | 9 | 44 | 43 | 32 | 32 | 32 | 37 | 43 | 29 | 10 | 311 |
| Miscellaneous Surg. | 7 | 36 | 45 | 35 | 29 | 33 | 30 | 16 | 23 | 9 | 263 |
| Mumps | .. | .. | .. | .. | 2 | 4 | 1 | 4 | 4 | 1 | 16 |
| Nephritis | .. | .. | .. | .. | .. | .. | 1 | .. | .. | .. | 1 |
| Pharyngitis | .. | 2 | 1 | 2 | 7 | 1 | 7 | 4 | .. | .. | 24 |
| Pleuritis | .. | 1 | .. | .. | .. | .. | 2 | 1 | .. | .. | 4 |
| Pneumonia | .. | .. | 1 | .. | 1 | 1 | 1 | 1 | .. | .. | 5 |
| Rheumatism | .. | 3 | 1 | 1 | 3 | 2 | 1 | .. | 1 | 1 | 13 |
| Scarlet Fever | .. | 1 | .. | .. | .. | 1 | 1 | 1 | .. | .. | 4 |
| Skin, of the | 1 | 6 | 5 | 2 | 3 | 3 | 2 | 3 | 4 | 2 | 31 |
| Teeth, of the | .. | 1 | 3 | 8 | 2 | 5 | 7 | 2 | 1 | .. | 29 |
| Tonsillitis | .. | 16 | 6 | 9 | 18 | 12 | 20 | 19 | 8 | 2 | 110 |
| Tuberculosis | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 |
| Typhoid Fever | .. | .. | .. | .. | 1 | .. | .. | .. | .. | .. | 1 |
| No diagnosis | 1 | 5 | 5 | 6 | 12 | 6 | 6 | 9 | 2 | .. | 52 |
| Total | 28 | 188 | 230 | 199 | 351 | 245 | 388 | 312 | 110 | 38 | 2089 |
| Visits | 23 | 153 | 112 | 194 | 300 | 330 | 417 | 247 | 190 | 123 | 2474 |
| Office consultations, med. | 31 | 277 | 247 | 205 | 310 | 242 | 333 | 378 | 239 | 162 | 1269 |
| Office consultations, surg. | 24 | 141 | 159 | 116 | 167 | 133 | 141 | 88 | 153 | 142 | 908 |
| Total No. consultations | 78 | 571 | 518 | 515 | 777 | 705 | 941 | 713 | 587 | 427 | 5832 |

Cases not seen by the Medical Adviser 771

TABLE II.—ILLNESS REPORT AS RELATED TO THE DIFFERENT SCHOOLS

| Diseases | College | | | | | | | Law | Grad. Arts and Sciences | G. B. | Div. | Other Grad. Students | Totals |
|--|---------|-----|-----|-----|-----|------|-----|-----|----------------------------|-------|------|-------------------------|--------|
| | 1 | 2 | 3 | 4 | Sp. | ocC. | Un. | | | | | | |
| Abscesses | 5 | 1 | 3 | 3 | .. | 1 | .. | 1 | .. | .. | .. | .. | 14 |
| Appendicitis | 4 | 6 | 1 | 4 | .. | 4 | .. | 4 | 1 | .. | .. | .. | 24 |
| Asthma | 1 | 2 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 3 |
| Bronchitis | 8 | 12 | 6 | 4 | .. | .. | .. | .. | 1 | 1 | .. | 1 | 33 |
| Chicken-pox | 2 | 3 | 1 | 1 | .. | 1 | .. | .. | 1 | .. | .. | .. | 9 |
| Colds—unclassified | 46 | 55 | 62 | 28 | 1 | 15 | 8 | 6 | 4 | 1 | .. | .. | 226 |
| Coryza | 17 | 8 | 9 | 3 | .. | 1 | .. | .. | .. | .. | .. | .. | 38 |
| Diarrhoea | .. | 1 | 3 | 3 | .. | .. | .. | .. | .. | .. | .. | .. | 7 |
| Diphtheria | 2 | 1 | .. | .. | .. | .. | 1 | .. | .. | .. | .. | .. | 4 |
| Ear, of the | 10 | 6 | 4 | 4 | .. | .. | 3 | 2 | .. | .. | .. | .. | 29 |
| Eye, of the | 29 | 42 | 29 | 19 | .. | 9 | 2 | 3 | 1 | .. | .. | .. | 134 |
| General Debility | 12 | 19 | 15 | 12 | .. | 2 | .. | 2 | .. | .. | .. | .. | 63 |
| German Measles | 62 | 51 | 51 | 39 | .. | 11 | 24 | 8 | 1 | .. | 3 | .. | 250 |
| Grippe | 41 | 55 | 43 | 33 | 2 | 11 | 16 | 7 | 4 | 1 | .. | .. | 213 |
| Heart, of the | 3 | 2 | .. | .. | .. | 3 | 1 | .. | .. | .. | .. | .. | 9 |
| Indigestion | 14 | 13 | 11 | 4 | .. | 2 | 5 | 5 | 2 | 1 | 1 | .. | 58 |
| Infantile Paralysis | .. | .. | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 |
| Infections, localized | 12 | 11 | 14 | 7 | 1 | 1 | 6 | 2 | .. | .. | 1 | .. | 55 |
| Insomnia | .. | .. | .. | 1 | 1 | 1 | .. | .. | .. | .. | .. | .. | 3 |
| Jaundice | 4 | 3 | 2 | 1 | .. | .. | .. | 1 | 2 | .. | .. | .. | 13 |
| Laryngitis | 5 | 3 | .. | 2 | .. | 1 | 1 | .. | .. | .. | .. | .. | 12 |
| Lumbago | .. | .. | 1 | 1 | .. | .. | .. | .. | .. | .. | .. | .. | 2 |
| Malaria | .. | .. | .. | 2 | .. | .. | .. | .. | .. | .. | .. | .. | 2 |
| Measles | 9 | 2 | 4 | 4 | .. | 2 | 1 | 1 | .. | .. | .. | .. | 23 |
| Miscellaneous Med. | 52 | 72 | 61 | 38 | 3 | 26 | 23 | 27 | 5 | 2 | 2 | .. | 311 |
| Miscellaneous Surg. | 58 | 55 | 48 | 35 | 3 | 8 | 21 | 23 | 7 | 1 | 4 | .. | 263 |
| Mumps | 2 | 3 | 1 | 3 | 1 | .. | 4 | .. | .. | 1 | 1 | .. | 16 |
| Nephritis | .. | .. | .. | 1 | .. | .. | .. | .. | .. | .. | .. | .. | 1 |
| Pharyngitis | 8 | 10 | 3 | 2 | .. | .. | .. | 1 | .. | .. | .. | .. | 24 |
| Pleuritis | .. | 1 | 1 | .. | .. | .. | 1 | 1 | .. | .. | .. | .. | 4 |
| Pneumonia | 1 | .. | 2 | .. | .. | .. | .. | .. | .. | .. | 2 | .. | 5 |
| Rheumatism | 1 | 2 | 7 | .. | .. | .. | 1 | .. | 2 | .. | .. | .. | 13 |
| Scarlet Fever | .. | .. | 1 | .. | .. | 2 | .. | 1 | .. | .. | .. | .. | 4 |
| Skin, of the | 7 | 3 | 7 | .. | .. | 2 | 5 | 3 | 2 | .. | 2 | .. | 31 |
| Teeth, of the | 1 | 14 | 8 | 4 | .. | 1 | 1 | .. | .. | .. | .. | .. | 29 |
| Tonsillitis | 21 | 26 | 21 | 16 | .. | 6 | 7 | 6 | 5 | 1 | 1 | .. | 110 |
| Tuberculosis | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | .. | .. | 1 |
| Typhoid Fever | .. | .. | .. | .. | .. | .. | 1 | .. | .. | .. | .. | .. | 1 |
| No diagnosis | 15 | 14 | 11 | 5 | .. | 2 | .. | 4 | 1 | .. | .. | .. | 52 |
| Totals | 452 | 496 | 431 | 279 | 12 | 112 | 117 | 107 | 37 | 8 | 18 | .. | 2089 |
| No. of Students | 694 | 651 | 640 | 424 | 60 | 173 | 856 | 588 | 222 | 73 | .. | .. | |
| % of "Sign-offs" | 65 | 76 | 67 | 65 | 20 | 65 | 14 | 18 | 17 | 11 | .. | .. | |
| No. of Students at Infirmary | 141 | 156 | 140 | 99 | 5 | 42 | 104 | 71 | 22 | 4 | 29 | .. | |
| % of "Sign-offs" | 20 | 24 | 22 | 23 | 8 | 24 | 12 | 12 | 9 | 5 | .. | .. | |

TABLE III
STILLMAN INFIRMARY

LIST OF CASES, 1916-17

| | | | |
|--------------------------------|-----|----------------------------------|-----|
| Abscesses | 12 | Jaundice | 6 |
| Appendicitis | 19 | Laryngitis | 1 |
| Asthma | 1 | Lumbago | 1 |
| Bronchitis | 13 | Malaria | 2 |
| Chicken-pox | 5 | Measles | 16 |
| Colds—unclassified | 43 | Miscellaneous Medical | 56 |
| Coryza | 3 | Miscellaneous Surgical | 130 |
| Diarrhoea | 2 | Mumps | 10 |
| Diphtheria | 3 | Neuralgia | 1 |
| Ear, of the | 18 | Pharyngitis | 12 |
| Eye, of the | 2 | Pleuritis | 2 |
| General Debility | 4 | Pneumonia | 3 |
| German Measles | 192 | Rheumatism | 6 |
| Grippe | 106 | Scarlet Fever | 3 |
| Heart, of the | 1 | Skin, of the | 20 |
| Indigestion | 12 | Teeth, of the | 4 |
| Infantile Paralysis | 1 | Tonsillitis | 54 |
| Infections—localized | 32 | Typhoid Fever | 1 |
| Insomnia | 4 | No diagnosis | 12 |
| | | Total | 813 |

| | |
|-------------------------|-----|
| Room patients | 101 |
| Ward patients | 712 |
| Total | 813 |

| | |
|---------------------------|-----|
| Discharged—well | 572 |
| “ relieved | 235 |
| “ not relieved | 1 |
| Died | 3 |
| Transferred | 2 |
| Total | 813 |

| | |
|---|-------|
| Total number of hospital days | 4,233 |
| Daily average | 15.67 |
| Total number of operations | 56 |
| Operations for appendicitis | 10 |

REPORT OF THE APPOINTMENT OFFICE

FACULTY OF ARTS AND SCIENCES

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I have the honor of presenting the Report of the Faculty Office for the year 1916-17.

The activities of the Office are two-fold: (1) the recommendation of teachers, either by the Chairmen of the Divisions and Departments or their representatives, or by the Office with the approval of the Departments; (2) general secretarial work for the Divisions and Departments.

As usual, certain Chairmen have carried on their correspondence entirely outside of the Office. We regret that we have not been of direct service to these Chairmen, who have, nevertheless, taken the trouble to collect and report information about appointments. On the other hand, about forty members of the Faculty have made use of the Office, dictating circular letters, letters of recommendation, and general University correspondence. The Office has also copied reports, tables, examination questions, etc., sent out notices, and helped with other departmental business.

Every year the Office finds itself unable to answer all the calls that come to it for men fitted both by personal quality and by training to teach in elementary and secondary schools. The demand for school teachers of mathematics and the natural sciences usually exceeds the supply; and the demand for school teachers who can intelligently supervise the outdoor activities of their pupils exceeds it always. This year the war has taken so many men away from teaching that it has been impossible to meet even the demands of colleges and universities, especially for teachers of chemistry, physics and mathematics. In vocational and technical subjects, which, if studied at Harvard at all, are rarely studied with a view to teaching, the Office is never able to meet all demands.

The statistical tables of appointments follow. Of the 215 persons appointed, 197 were appointed on the direct recommendation of the University in response to requests from institutions for candidates, and 18 were appointed with the advice of the University, given more indirectly, at the request of candidates, of teachers' agencies, or of institutions which needed information about individual men. It should be noted also that of the 215 positions filled, 15 were subsequently vacated for reasons connected with the war.

TABLE OF INSTITUTIONS

| | Number of Calls Direct | Number of Calls through Agencies | Number of Posi- tions Filled | Number of Sala- ries Reported | Aggregate Salaries Reported |
|---------------------------------|------------------------------|---|---------------------------------------|--|-----------------------------------|
| Colleges or Universities..... | 262 | 41 | 105 | 88 | \$121,080.00 |
| Technical Schools..... | 36 | .. | 7 | 7 | 8,650.00 |
| Government Schools..... | 7 | .. | 6 | 6 | 24,400.00 |
| Medical Schools..... | 1 | .. | 1 | 1 | 1,700.00 |
| Museum..... | 1 | .. | .. | .. | .. |
| State Board of Education..... | 4 | .. | 3 | 2 | 1,533.50 |
| Normal Schools..... | 5 | .. | 4 | 2 | 3,800.00 |
| Public Schools..... | 81 | 24 | 20 | 16 | 29,312.00 |
| Private Schools..... | 250 | 15 | 65 | 54 | 74,680.00 |
| State Institution..... | 1 | .. | 1 | 1 | 360.00 |
| Social Service Institution..... | 3 | .. | 3 | 1 | 1,200.00 |
| Totals..... | 651 | 80 | 215 | 178 | \$206,685.50 |

POSITIONS FILLED — TABLE OF SUBJECTS

| | Colleges Universities | Technical Schools | Government Schools | Medical Schools | State Board of Education | Normal Schools | Public Schools | Private Schools | State Institution | Social Service Institution | Totals |
|--|--------------------------|----------------------|-----------------------|--------------------|-----------------------------|-------------------|-------------------|--------------------|----------------------|-------------------------------|--------|
| GROUP I | | | | | | | | | | | |
| ANCIENT LANGUAGES: | | | | | | | | | | | |
| Latin | .. | .. | .. | .. | .. | 2 | .. | .. | .. | .. | 2 |
| Greek | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | 1 |
| Latin and Greek | 2 | .. | .. | .. | .. | .. | .. | 4 | .. | .. | 6 |
| with English | .. | .. | .. | .. | .. | 1 | 1 | .. | .. | .. | 2 |
| " German | .. | .. | .. | .. | .. | .. | 2 | .. | .. | .. | 2 |
| " General Elementary Subjects | .. | .. | .. | .. | .. | .. | 1 | .. | .. | .. | 1 |
| | | | | | | | | | | | 14 |
| MODERN LANGUAGES: | | | | | | | | | | | |
| English | 34 | 3 | 2 | .. | 1 | 1 | 3 | 12 | .. | .. | 56 |
| with French | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | 1 |
| " Mathematics | .. | .. | .. | .. | .. | .. | 2 | .. | .. | .. | 2 |
| " Latin, French and Arithmetic | .. | .. | .. | .. | .. | .. | 1 | .. | .. | .. | 1 |
| German | 2 | 1 | .. | .. | .. | .. | .. | 1 | .. | .. | 4 |
| with Music | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | 1 |
| " Physics | 1 | .. | .. | .. | .. | .. | .. | 1 | .. | .. | 2 |
| Modern Languages | 4 | .. | 2 | .. | .. | .. | 1 | 3 | .. | .. | 10 |
| French | 4 | .. | .. | .. | .. | .. | .. | 7 | 1 | .. | 12 |
| with Latin | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | 1 |
| " Spanish | .. | 1 | .. | .. | .. | .. | 1 | .. | .. | .. | 2 |
| Romance Languages | 11 | 1 | .. | .. | .. | .. | .. | .. | .. | .. | 12 |
| | | | | | | | | | | | 104 |
| MUSIC | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 |
| | | | | | | | | | | | 1 |
| GROUP II | | | | | | | | | | | |
| PHYSICS | 2 | .. | .. | .. | .. | .. | .. | .. | .. | .. | 2 |
| CHEMISTRY | 10 | .. | .. | .. | .. | .. | .. | .. | .. | .. | 10 |
| with General Science | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | 1 |
| " Physics and General Science | .. | .. | .. | .. | .. | .. | 1 | .. | .. | .. | 1 |
| Science | .. | .. | .. | .. | .. | .. | 1 | .. | .. | .. | 1 |
| BIOLOGY | .. | .. | .. | .. | .. | .. | 1 | 1 | .. | .. | 2 |
| with General Science | .. | .. | .. | .. | .. | .. | .. | 3 | .. | .. | 3 |
| Zoology | 1 | .. | .. | 1 | .. | .. | .. | .. | .. | .. | 2 |
| Geology | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 |
| | | | | | | | | | | | 7 |
| | | | | | | | | | | | 1 |
| GROUP III | | | | | | | | | | | |
| HISTORY, GOVERNMENT, AND ECONOMICS: | | | | | | | | | | | |
| History | 9 | .. | .. | .. | .. | 1 | .. | 3 | .. | .. | 13 |
| with Economics | 1 | .. | .. | .. | .. | .. | 1 | .. | .. | .. | 2 |
| " Economics and Government | .. | .. | .. | .. | .. | .. | 1 | .. | .. | .. | 1 |
| " English | .. | .. | .. | .. | .. | .. | 1 | 1 | .. | .. | 2 |
| History with English and Latin | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | 1 |
| with Latin | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | 1 |
| " Science | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | 1 |
| " Civics | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | 1 |
| " General Elementary Subjects | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | 1 |
| Economics | 6 | .. | .. | .. | .. | .. | .. | .. | .. | .. | 6 |
| with Government | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 |
| Government | 3 | .. | .. | .. | .. | .. | .. | .. | .. | .. | 3 |
| Sociology | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 |
| Law | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 |
| | | | | | | | | | | | 17 |
| Carried forward | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 177 |

POSITIONS FILLED—TABLE OF SUBJECTS

| | Colleges Universities | Technical Schools | Government Schools | Medical Schools | State Board of Education | Normal Schools | Public Schools | Private Schools | State Institution | Social Service Institution | Totals |
|-----------------------------------|--------------------------|----------------------|-----------------------|--------------------|-----------------------------|-------------------|-------------------|--------------------|----------------------|-------------------------------|--------|
| Brought forward..... | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 177 |
| GROUP III (Continued) | | | | | | | | | | | |
| EDUCATION..... | 1 | 1 | .. | .. | .. | 2 | .. | .. | .. | .. | 4 |
| Administration: | | | | | | | | | | | |
| Supervisor for State..... | .. | .. | .. | .. | 1 | .. | .. | .. | .. | .. | 1 |
| Superintendents..... | .. | .. | .. | .. | .. | .. | 2 | .. | .. | .. | 2 |
| Principal..... | .. | .. | .. | .. | .. | .. | 2 | .. | .. | .. | 2 |
| with Mathematics and Science..... | .. | .. | .. | .. | .. | .. | 1 | .. | .. | .. | 1 |
| Submaster, with Science..... | .. | .. | .. | .. | .. | .. | 1 | .. | .. | .. | 1 |
| Headmasters..... | .. | .. | .. | .. | .. | .. | .. | 4 | .. | .. | 4 |
| Associate Headmaster..... | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | 1 |
| General Elementary Subjects..... | .. | .. | .. | .. | .. | .. | .. | 3 | 1 | .. | 4 |
| Social Service..... | .. | .. | .. | .. | .. | .. | .. | .. | .. | 3 | 3 |
| | | | | | | | | | | | 23 |
| GROUP IV | | | | | | | | | | | |
| PHILOSOPHY..... | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 |
| with Sociology..... | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 |
| PSYCHOLOGY..... | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 |
| with Logic..... | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 |
| MATHEMATICS..... | 5 | .. | 2 | .. | .. | .. | .. | 4 | .. | .. | 11 |
| Total..... | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 215 |

GEOGRAPHICAL DISTRIBUTION

| | Colleges Universities | Technical Schools | Government Schools | Medical Schools | Museum | State Board of Education | Normal Schools | Public Schools | Private Schools | State Institution | Social Service Institution | Totals for States | Totals for Divisions |
|---------------------------------|--------------------------|----------------------|-----------------------|--------------------|--------|-----------------------------|-------------------|-------------------|--------------------|----------------------|-------------------------------|----------------------|-------------------------|
| No. ATLANTIC DIVISION... | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 114 |
| Maine | 2 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 2 | |
| New Hampshire | 1 | 1 | .. | .. | .. | .. | 1 | .. | 1 | .. | .. | 4 | |
| Vermont | 1 | .. | .. | .. | .. | .. | .. | 2 | .. | .. | .. | 3 | |
| Massachusetts | 7 | 4 | .. | .. | .. | 1 | .. | 11 | 26 | 2 | .. | 51 | |
| Connecticut | 6 | .. | .. | .. | .. | 1 | .. | 2 | 10 | .. | .. | 19 | |
| New York | 5 | .. | .. | .. | .. | .. | .. | .. | 11 | .. | .. | 16 | |
| New Jersey | 2 | .. | .. | .. | .. | .. | .. | .. | 4 | .. | .. | 6 | |
| Pennsylvania | 9 | .. | .. | .. | .. | .. | 1 | 1 | 2 | .. | .. | 13 | |
| So. ATLANTIC DIVISION... | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 19 |
| Maryland | 1 | .. | 6 | .. | .. | .. | .. | .. | 2 | .. | .. | 9 | |
| District of Columbia | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | |
| Delaware | 3 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 3 | |
| Virginia | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | |
| North Carolina | 3 | .. | .. | .. | .. | .. | .. | .. | 2 | .. | .. | 5 | |
| So. CENTRAL DIVISION... | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 9 |
| Kentucky | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | |
| Tennessee | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | |
| Texas | 7 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 7 | |
| No. CENTRAL DIVISION... | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 49 |
| Michigan | 3 | .. | .. | .. | .. | .. | 1 | .. | 1 | .. | .. | 5 | |
| Ohio | 7 | 1 | .. | .. | .. | .. | .. | 1 | 2 | .. | .. | 11 | |
| Indiana | 3 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 3 | |
| Wisconsin | 4 | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | 5 | |
| Illinois | 7 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 7 | |
| Minnesota | 7 | .. | .. | .. | .. | .. | .. | 1 | 1 | .. | .. | 9 | |
| Iowa | 2 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 2 | |
| Missouri | 3 | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | 4 | |
| Oklahoma | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | .. | 1 | |
| Kansas | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | |
| Nebraska | .. | .. | .. | 1 | .. | .. | .. | .. | .. | .. | .. | 1 | |
| WESTERN DIVISION... | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 17 |
| New Mexico | .. | .. | .. | .. | .. | .. | 1 | .. | .. | .. | .. | 1 | |
| Colorado | 3 | .. | .. | .. | .. | .. | .. | 1 | .. | .. | .. | 4 | |
| Idaho | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | |
| Arizona | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | 1 | |
| California | 5 | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | 6 | |
| Oregon | 2 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 2 | |
| Washington | 2 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 2 | |
| CANADA | 3 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 3 | 3 |
| NEW ZEALAND | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 1 |
| RUSSIA | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 3 | 3 | 3 |
| Total positions | 105 | 7 | 6 | 1 | .. | 2 | 4 | 20 | 65 | 2 | 3 | 215 | 215 |

L. B. R. BRIGGS.

REPORT OF THE APPOINTMENT OFFICE

THE HARVARD ALUMNI ASSOCIATION

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I herewith submit the report of the Appointment Office of the Harvard Alumni Association for the year 1916-17.

The function of the Alumni Appointment Office is to place graduates and non-graduates of the University in permanent business and technical positions. It seeks to coöperate with the Faculty and with the Harvard Clubs throughout the country; and a report of their work, so far as they have rendered a report, is included.

The success of the Appointment Committee of the Harvard Club of New York City, established in 1914, led the officers of the Associated Harvard Clubs, at their meeting last year, to suggest that the constituent clubs should establish similar committees. In response to this suggestion, about forty-five clubs, covering all parts of the country and abroad, formed committees, thus establishing a chain of employment bureaus for Harvard men, with the Alumni Appointment Office as the central clearing house. Naturally, owing to war conditions, there has been little need during the past year for much actual work, but the machinery has been set in motion, and when the clubs have been asked to place men in their respective territories they have responded generously.

The decrease in the number of positions filled this year by the Alumni Office, the Faculty, and the Harvard Club of New York City, was to be expected, for a very large percentage of the younger graduates have entered the Army, the Navy, or Government work of some sort; and it is the members of the graduating classes and the younger alumni who constitute the majority of the men placed.

Last spring the Alumni Association established the National Service Bureau to help the Harvard men wishing to enter some Government service, and in this work the Appointment Office has coöperated whenever possible. Carroll Dunham, 3d, '10, volunteered his services as director, and, when he joined the Aviation Corps, Laurence W. Morgan, '10, volunteered to carry on the work. It has been difficult to keep a complete record of the number of actual positions filled, but the Bureau has helped place several hundred men, — in the Aviation Section, Signal Corps, Quartermaster Corps, Ordnance Department, Medical Corps, Ambulance Service, Y. M. C. A. work, American Red Cross, etc. The most important work that the Bureau has accomplished, however, has been to give information to a great many alumni and undergraduates in regard to the various war activities.

ALUMNI ASSOCIATION (PERMANENT POSITIONS)

| | Number of Positions Filled | Number of Salaries Reported | Aggregate Salaries Reported |
|---|----------------------------------|-----------------------------------|-----------------------------------|
| Accounting (Public)..... | 4 | 4 | \$5,276 |
| Advertising (Agency)..... | 2 | 2 | 3,380 |
| Brokerage (including Cotton)..... | 2 | 2 | 780 |
| Chemistry (Consulting and Miscellaneous) | 3 | 3 | 3,470 |
| Engineering (Civil, Construction, Electrical) | 4 | 4 | 4,496 |
| Exporting and Importing | 2 | 2 | 2,280 |
| Insurance (Statistical) | 1 | 1 | 600 |
| Journalism (Newspapers and Magazines) .. | 4 | 4 | 4,538 |
| (Advertising..... 1) | | | |
| Clerical | 1 | | |
| Editorial | 1 | | |
| Reportorial..... | 1 | | |
| Manufacturing..... | 45 | 45 | 51,621 ¹ |
| (Accounting—Cost work 2) | | | |
| Advertising..... | 1 | | |
| Chemistry..... | 13 | | |
| Credit work | 2 | | |
| Drafting | 2 | | |
| Efficiency work | 1 | | |
| Engineering (Mechani- | | | |
| cal and Industrial) .. | 4 | | |
| General, Operating | 5 | | |
| Office work | 3 | | |
| Secretarial | 2 | | |
| Selling..... | 10 | | |
| Mercantile (Retail and Wholesale) | 6 | 6 | 4,886 |
| (Department store work 3) | | | |
| Efficiency work | 1 | | |
| General and Office work 2) | | | |
| Railroad (Engineering) | 1 | 1 | 1,080 |
| Real Estate (Selling) | 2 | 2 | 520 ¹ |
| Secretaryships | 7 | 7 | 11,320 |
| (Civic and Executive ... 3) | | | |
| (Private and Stenographic 4) | | | |
| Telephone and Telegraph (Acct., Statistical) | 2 | 2 | 2,016 |
| Totals..... | 85 | 85 | \$96,263 |

¹ Indicate salaries partly on commission basis.

ALUMNI ASSOCIATION (TEMPORARY POSITIONS)

| | Number of Positions Filled | Total Amount Earned |
|-----------------------|----------------------------------|---------------------------|
| Accounting..... | 1 | \$32 |
| Banking..... | 2 | 210 |
| Department Store..... | 1 | 17 |
| Forestry work..... | 1 | 25 |
| Totals..... | 5 | \$284 |

The temporary positions are of two kinds, — those for which the men are engaged for a particular piece of work essentially temporary in its nature; and business positions which the men did not retain for more than a week or two.

Number of applications for men, permanent and temporary... 415
 Number of positions filled, permanent and temporary 90
 Number of applicants registered, those actively available and those satisfied but available for advancement (this number includes the men now engaged in National Service) 780

FACULTY (PERMANENT BUSINESS POSITIONS)

| | Number of Positions Filled | Number of Salaries Reported | Aggregate Salaries Reported |
|--|----------------------------------|-----------------------------------|-----------------------------------|
| BUSINESS ADMINISTRATION, GRADUATE | | | |
| SCHOOL OF..... | 12 | 7 | \$7,922 |
| Banking..... 2 | | | |
| Civic Organisations, Secretarial and Statis- tical..... 2 | | | |
| Exporting..... 1 | | | |
| Manufacturing, (1) Ac- counting, (1) Effi- ciency, (1) Sales.... 3 | | | |
| Railroad, (1) Clerical, (1) Operating, (2) Secretarial..... 4 | | | |
| LANDSCAPE ARCHITECTURE, SCHOOL OF... | 2 | 2 | 3,960 |
| CHEMISTRY DIVISION (Manufacturing) ... | 10 | 5 | 7,716 |
| ECONOMICS (Civic Organisations)..... | 2 | 2 | 3,200 |
| GEOLOGY (Mining and Oil)..... | 2 | 2 | 3,500 |
| GOVERNMENT (Secretarial, Statistical) ... | 3 | 2 | 2,750 |
| METALLURGICAL ENGINEERING..... | 1 | 1 | 1,300 |
| PHYSICS (Manufacturing)..... | 1 | 1 | 2,400 |
| ROMANCE LANGUAGES (Foreign Trade)... | 1 | 1 | 1,500 |
| Totals..... | 34 | 23 | \$34,248 |

In addition, the Faculty have been largely instrumental and, in many cases, entirely responsible for directly placing a large number of men in the Government service.

A partial report follows:

GRADUATE SCHOOL OF BUSINESS ADMINISTRATION is entirely responsible for

15 positions as Assistant Paymasters in the Navy

3 positions in the Army

3 Special War positions.

SCHOOL OF LANDSCAPE ARCHITECTURE has been instrumental in filling over 50 positions in the Engineer Corps, Camouflage and Forest Regiments, Ambulance Service, Aviation and Signal Corps. A large proportion have been under the Cantonment Division of the Quartermaster Department, in positions varying from that of draftsman and field assistant in engineering, to designers of cantonments.

CHEMISTRY DIVISION is responsible for

12 positions in chemical work:

7 in Bureaus of Mines and Chemistry

2 in Medical and Sanitary Corps

1 in Ordnance Department

1 in Bureau of Standards, Signal Corps

1 in Aviation Department.

HARVARD CLUB OF NEW YORK CITY

| | Number of Positions Filled | Number of Salaries Reported | Amount Salaries Reported |
|---|----------------------------------|-----------------------------------|--------------------------------|
| Advertising..... | 1 | 1 | \$4,000 |
| Banking and Brokerage..... | 3 | 3 | 6,500 |
| Editorial work..... | 1 | 1 | 1,200 |
| Manufacturing, Mercantile, Institutional (Clerical and Selling)..... | 4 | 4 | 6,900 |
| Technical work (Chemistry and Engineering) | 2 | 2 | 4,800 |
| Totals..... | 11 | 11 | \$23,400 |

NOTE: It should be noted that owing to a change in the committee of the Harvard Club of New York City, no accurate records were kept for part of this time; and during the past year, also, the officers have given most of their time and energy to war activities.

HARVARD CLUB OF CHICAGO

| | Number of Positions Filled | Number of Salaries Reported | Amount Salaries Reported |
|--|----------------------------------|-----------------------------------|--------------------------------|
| Manufacturing (Accounting, Clerical).... | 2 | 2 | \$2,110 |
| Legal work..... | 1 | .. | .... |
| Totals..... | 3 | 2 | \$2,110 |

HARVARD ENGINEERING SOCIETY OF NEW YORK

| | Number of Positions Filled | Number of Salaries Reported | Amount Salaries Reported |
|--------------------------|----------------------------------|-----------------------------------|--------------------------------|
| Engineering (Civil)..... | 1 | 1 | \$900 |

GEOGRAPHICAL DISTRIBUTION (PERMANENT POSITIONS)

| | Alumni Association | Faculty | Harvard Clubs | Totals |
|---------------------------|-----------------------|---------|---------------|--------|
| NORTH ATLANTIC DIVISION:— | | | | |
| Maine..... | 1 | .. | .. | 1 |
| New Hampshire..... | 1 | .. | .. | 1 |
| Massachusetts..... | 55 | 8 | .. | 63 |
| Rhode Island..... | 2 | .. | .. | 2 |
| Connecticut..... | 3 | 1 | .. | 4 |
| New York..... | 6 | 4 | 12 | 22 |
| New Jersey..... | 1 | 7 | .. | 8 |
| Pennsylvania..... | 1 | 2 | .. | 3 |
| SOUTH ATLANTIC DIVISION:— | | | | |
| Delaware..... | 1 | 2 | .. | 3 |
| District of Columbia..... | 1 | 3 | .. | 4 |
| NORTH CENTRAL DIVISION:— | | | | |
| Ohio..... | 8 | .. | .. | 8 |
| Indiana..... | .. | 1 | .. | 1 |
| Illinois..... | 2 | .. | 3 | 5 |
| Wisconsin..... | 1 | .. | .. | 1 |
| Minnesota..... | .. | 1 | .. | 1 |
| Missouri..... | .. | 1 | .. | 1 |
| SOUTH CENTRAL DIVISION:— | | | | |
| Oklahoma..... | .. | 1 | .. | 1 |
| Texas..... | 1 | .. | .. | 1 |
| PHILIPPINE ISLANDS..... | .. | 1 | .. | 1 |
| CANADA..... | .. | 1 | .. | 1 |
| MEXICO..... | .. | 1 | .. | 1 |
| SOUTH AMERICA..... | 1 | .. | .. | 1 |
| | 85 | 34 | 15 | 134 |

A comparison for the past eight years of the number of *permanent* business positions filled, and the amounts earned, is as follows:—

| | Alumni Associa- tion | Fac- ulty | Harvard Club of New York City | Other Harvard Clubs | Total Posi- tions Filled | Number Salaries Reported | Amount Salaries Reported | Average |
|---------|----------------------------|--------------|--|---------------------------|-----------------------------------|--------------------------------|--------------------------------|---------|
| 1909-10 | 52 | 22 | .. | .. | 74 | 70 | \$68,388 | \$977 |
| 1910-11 | 66 | 46 | .. | .. | 112 | 85 | 76,992 | 906 |
| 1911-12 | 63 | 32 | .. | .. | 95 | 73 | 65,998 | 904 |
| 1912-13 | 99 | 40 | .. | .. | 139 | 129 | 125,793 | 975 |
| 1913-14 | 81 | 34 | 29 | .. | 144 | 142 | 149,944 | 1,055 |
| 1914-15 | 78 | 60 | 21 | .. | 159 | 130 | 125,094 | 962 |
| 1915-16 | 120 | 58 | 43 | .. | 221 | 195 | 197,516 | 1,012 |
| 1916-17 | 85 | 34 | 11 | 4 | 134 | 122 | 156,921 | 1,286 |

CHARLES JACKSON, *General Secretary*.

REPORT OF THE SECRETARY FOR STUDENT EMPLOYMENT

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — The following report, submitted by the Secretary of the Students' Employment Office, describes the work of that Office for the year 1916-17. The office undertakes to recommend Harvard students and graduates as tutors and for such temporary or part-time work as is available. It also endeavors to increase the demand for such work.

In comparison with 1915-16, the figures show a decrease of twenty in the number of men employed and a decrease of \$5,568.42 in the amount earned.

The Business School positions were secured independently of the Students' Employment Office, although they are included in the report.

| | 1915-16 | 1916-17 |
|---|---------|------------------|
| Men registered for term-time work | 621 | 596 |
| Men who secured term-time work | 411 | 437 |
| Men registered for summer work | 561 | 495 |
| Men who secured summer work | 207 | 162 ¹ |

The division of registration among the Departments of the University is as follows: —

| | Term-time | Summer |
|--------------------------------------|-----------|--------|
| College | 447 | 295 |
| Graduate | 44 | 99 |
| Law | 52 | 53 |
| Unclassified | 24 | 20 |
| Medical | 6 | 4 |
| Business | 14 | 7 |
| Divinity | 3 | 2 |
| Architectural | 2 | 3 |
| Dental | 3 | 10 |
| School for Health Officers | 1 | 2 |
| Total | 596 | 495 |

Total number of men registered at the office, 1916-17 (101 duplicates), 1091.

¹ 152 men employed through the aid of this Office.

7 men employed through the aid of the Graduate School of Business Administration.

3 men employed through the aid of the Harvard Club of New York City.

Men employed and amount earned through the aid of the Students' Employment Office, the Graduate School of Business Administration, and the Harvard Club of New York City:

| | Men Employed | Amount Earned | |
|-------------------------|-----------------|---------------|-------------|
| | | 1915-16 | 1916-17 |
| Term-time, 1915-16..... | 411 | \$32,506.32 | |
| Term-time, 1916-17..... | 437 | | \$40,443.95 |
| Summer, 1916..... | 207 | 45,614.44 | |
| Summer, 1917..... | 161 | | 32,108.39 |
| Total..... | | \$78,120.76 | \$72,552.34 |

In addition to this amount \$4,803.73 was earned by students employed as coaches, clerks, ticket-takers, waiters, etc., by the Harvard Athletic Association.

TERM-TIME EMPLOYMENT. September 25, 1916 — June 21, 1917

| Positions | No. of Positions | Amount Earned | No. of Men Employed | Average Amount Earned Per Man |
|-------------------------------------|------------------|---------------|---------------------|-------------------------------|
| Advertising..... | 1 | \$6.70 | 1 | \$6.70 |
| Agent..... | 11 | 218.75 | 11 | 19.89 |
| Bowling Alley, Pin Boy..... | 1 | 6.00 | 1 | 6.00 |
| Boys' Club..... | 5 | 785.25 | 5 | 187.05 |
| Business..... | 1 | 1,000.00 | 1 | 1,000.00 |
| Canvasser..... | 8 | 153.00 | 8 | 19.12 |
| Caretaker..... | 2 | 165.00 | 2 | 82.50 |
| Chair Mover..... | 9 | 4.50 | 9 | .50 |
| Chauffeur..... | 5 | 211.50 | 5 | 42.30 |
| Choreman..... | 76 | 851.00 | 92 | 10.38 |
| Clerk..... | 197 | 2,587.58 | 197 | 13.13 |
| Coach..... | 4 | 614.00 | 4 | 153.50 |
| Companion..... | 5 | 627.50 | 6 | 104.58 |
| Distributor..... | 9 | 15.48 | 9 | 1.72 |
| Door Tender..... | 2 | 1.00 | 2 | .50 |
| Draftsman..... | 13 | 96.60 | 13 | 7.43 |
| Electrician..... | 1 | 1.60 | 1 | 1.60 |
| Errandman..... | 7 | 6.65 | 7 | .95 |
| First Aid..... | 5 | 75.00 | 5 | 15.00 |
| Furnace Man..... | 6 | 267.00 | 5 | 53.40 |
| Gardener..... | 28 | 135.95 | 31 | 4.38 |
| Guide..... | 65 | 72.86 | 65 | 1.12 |
| Handling Freight..... | 1 | 180.00 | 1 | 180.00 |
| Hat Checker..... | 1 | 1.50 | 1 | 1.50 |
| Hotel Employee..... | 2 | 427.00 | 2 | 213.50 |
| Investigator..... | 9 | 27.85 | 9 | 3.09 |
| Janitor..... | 2 | 195.50 | 2 | 97.75 |
| Librarian..... | 6 | 186.12 | 8 | 23.26 |
| Man to Impersonate Santa Claus..... | 1 | 5.00 | 1 | 5.00 |
| Manual Training..... | 2 | 173.00 | 2 | 86.50 |
| Masseur..... | 2 | 17.00 | 3 | 5.67 |
| Model..... | 4 | 45.30 | 4 | 11.32 |
| Monitor..... | 152 | 1,462.95 | 152 | 9.62 |
| Musician..... | 11 | 480.50 | 11 | 43.68 |
| Newspaper Work..... | 2 | 10.25 | 2 | 5.12 |
| Note-taker..... | 1 | 40.00 | 1 | 40.00 |
| Playground Instructor..... | 1 | 440.00 | 1 | 440.00 |
| Professional Shopper..... | 1 | 40.00 | 1 | 40.00 |
| Proof Reader..... | 1 | 14.00 | 1 | 14.00 |
| Reader..... | 11 | 159.35 | 14 | 11.36 |
| Red Cross..... | 3 | 286.00 | 3 | 88.89 |
| Research..... | 1 | 50.00 | 1 | 50.00 |
| Room for Services..... | 3 | 280.00 | 3 | 93.33 |
| Salesman..... | 34 | 634.54 | 34 | 17.62 |
| Scout..... | 1 | 1.35 | 1 | 1.35 |
| Secretary..... | 7 | 1,619.00 | 7 | 231.28 |
| Statistician..... | 1 | 15.00 | 1 | 15.00 |
| Stenographer..... | 2 | 105.00 | 2 | 52.50 |
| Ticket Taker..... | 7 | 19.00 | 7 | 2.71 |
| Translator..... | 16 | 167.18 | 16 | 10.45 |
| Tutor..... | 62 | 8,507.73 | 63 | 136.80 |
| Tutor Companion..... | 10 | 11,412.66 | 10 | 1,021.26 |
| Typewriter..... | 195 | 1,037.77 | 16 | 64.86 |
| Usher..... | 37 | 182.00 | 37 | 4.92 |
| Waiter..... | 72 | 4,130.48 | 75 | 55.07 |
| Watchman..... | 2 | 208.00 | 2 | 104.00 |
| Total..... | 1,144 | \$40,443.95 | | |

SUMMER EMPLOYMENT

June 21, 1917 — September 24, 1917

| Positions | No. of Positions | Amount Earned | No. of Men Employed | Average Amount Earned Per Man |
|---------------------------------|------------------|---------------|---------------------|-------------------------------|
| Advertising..... | 1 | \$150.00 | 1 | \$150.00 |
| Assistant Paymaster..... | 1 | 260.00 | 1 | 260.00 |
| Attendant, Bathhouse..... | 1 | 208.00 | 1 | 208.00 |
| Boatman..... | 2 | 330.00 | 2 | 165.00 |
| Boys' Club Work..... | 1 | 1,000.00 | 1 | 1,000.00 |
| Business..... | 7 | 1,503.50 | 7 | 214.78 |
| Caddy Master..... | 1 | 220.00 | 1 | 220.00 |
| Camp Councillor..... | 9 | 1,528.00 | 9 | 169.78 |
| Canvasser..... | 2 | 475.00 | 2 | 237.50 |
| Caretaker..... | 2 | 305.00 | 2 | 152.50 |
| Chauffeur..... | 3 | 411.25 | 3 | 137.08 |
| Choreman..... | 7 | 96.80 | 7 | 13.83 |
| Clerk..... | 16 | 1,588.75 | 16 | 99.23 |
| Companion..... | 7 | 2,055.00 | 7 | 286.43 |
| Conductor..... | 3 | 540.00 | 3 | 180.00 |
| Corrector (volunteer work)..... | 4 | ... | 4 | ... |
| Draftsman..... | 1 | 2.50 | 1 | 2.50 |
| Farmer..... | 11 | 3,057.70 | 11 | 277.88 |
| Gardener..... | 1 | 2.00 | 1 | 2.00 |
| Guide..... | 307 | 101.75 | 7 | 14.54 |
| Hotel Employee..... | 8 | 1,855.07 | 8 | 231.88 |
| Investigator..... | 1 | 122.50 | 1 | 122.50 |
| Musician..... | 2 | 45.50 | 2 | 45.50 |
| Porter..... | 1 | 60.00 | 1 | 60.00 |
| Room for Services..... | 1 | 240.00 | 1 | 240.00 |
| Salesman..... | 4 | 201.50 | 1 | 50.37 |
| Secretary..... | 3 | 932.00 | 3 | 310.88 |
| Stenographer..... | 3 | 50.00 | 3 | 16.66 |
| Translator..... | 22 | 35.90 | 1 | 35.90 |
| Tutor..... | 33 | 3,454.13 | 37 | 108.41 |
| Tutor Companion..... | 31 | 11,080.00 | 31 | 357.42 |
| Typewriter..... | 4 | 26.00 | 4 | 6.50 |
| Usher..... | 8 | 18.00 | 8 | 2.25 |
| Watchman..... | 3 | 152.54 | 3 | 50.84 |
| Total..... | 511 | \$32,108.39 | | |

MORRIS GRAY, JR.,
Secretary for Student Employment.

REPORT ON TREES

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — Except for plantings arranged for in the previous year, work on the University trees for 1916-17 has been confined to the necessary routine of care and maintenance. In November and December last, the plantation of large elms in the College Yard undertaken by Mr. Arthur H. Lea in 1915-16 was supplemented by the addition of six more trees. Five of them were put out in the north half of the Yard and one in the south. This practically completes the planting plan in the old Yard for the present, and results in a uniform distribution of twelve-inch elms over all the area left bare by the removal of old trees in 1914. In the same operation an exceptionally large elm, presented by an anonymous giver, was put in the Widener Quadrangle near the southeast corner of University Hall. To these seven large trees two more were added last April, the gifts of Mr. R. L. McCook and of the Class of 1898. These were placed respectively in the openings between University and Thayer and between University and Weld. Of the nine new trees only two failed to make vigorous growth during the summer. These two, as is frequent with weak trees, suffered attacks from the elm-bark borer, but retained vigor enough to make it likely that they will recuperate next year.

On the College grounds as a whole the trees are in good condition. Rainfall was plentiful, and watering was less often required than in ordinary summers. The greatest expense of protection is still due to the prevalence of the leopard moths. With constant care vigorous trees can apparently thrive in spite of them; but as long as the general infestation in Cambridge spreads unchecked, costly measures will still be indispensable for the College. In the summer of 1916 the scouting crews removed certainly 80 per cent of the larvae on the University trees. The extent to which the supply is annually recruited from outside can be seen from the following summary of larvae taken in 1917, from May 27 to September 27.

RECORD OF LEOPARD MOTH LARVAE TAKEN MAY 27 TO
SEPTEMBER 27, 1917

| Location | Larvae less than 1 year old | Larvae 1 year old or more |
|--------------------------------------|--------------------------------|------------------------------|
| In Yard: | | |
| All large trees..... | 3,007 | 172 |
| Mr. Lea's trees..... | 845 | 90 |
| 1915-16 Planting (small elms)..... | 922 | 6 |
| Other College Grounds: | | |
| All large trees..... | 2,287 | 316 |
| Memorial Delta (small elms)..... | 902 | 1 |
| Divinity Avenue (small elms)..... | 239 | 3 |
| Freshman Dormitories (small elms)..< | 319 | 6 |
| Holmes Field (oaks)..... | 74 | 6 |
| Totals..... | 8,595 | 600 |

R. T. FISHER.

ORDINARY DEGREES CONFERRED, 1913-17

| | 1913 | 1914 | 1915 | 1916 | 1917 |
|--|------|------|------|------|------|
| Bachelors of Arts | 406 | 396 | 456 | 448 | 434 |
| Bachelors of Arts out of course | 37 | 56 | 47 | 50 | 49 |
| Bachelors of Science | 55 | 32 | 60 | 52 | 81 |
| Bachelors of Science out of course | 9 | 18 | 9 | 9 | 10 |
| Bachelors of Science in Civil Engineering | .. | .. | .. | 10 | 16 |
| Bachelors of Science in Electrical Engineering | .. | .. | .. | 19 | 22 |
| Bachelors of Science in Mechanical Engineering | .. | .. | .. | 11 | 17 |
| Bachelors of Science in Sanitary Engineering | .. | .. | .. | 4 | 0 |
| Bachelors of Science in Mining and Metallurgy | .. | .. | .. | 1 | 8 |
| Associate in Arts | 1 | 1 | 2 | 0 | 5 |
| Bachelors of Divinity | 4 | 12 | 5 | 4 | 5 |
| Masters of Divinity | 4 | 3 | 3 | 2 | 7 |
| Doctors of Theology | .. | .. | 3 | 2 | 0 |
| Bachelors of Laws | 175 | 155 | 144 | 168 | 188 |
| Bachelors of Laws out of course | 20 | 13 | 22 | 25 | 19 |
| Doctors of Law | 2 | 3 | 2 | 6 | 2 |
| Doctor of Law out of course | .. | .. | .. | 1 | 0 |
| Doctors of Public Health | 2 | 2 | 2 | 2 | 1 |
| Doctors of Medicine | 60 | 63 | 87 | 74 | 67 |
| Doctors of Medicine out of course | 0 | 2 | 0 | 0 | 0 |
| Doctors of Dental Medicine | 39 | 46 | 58 | 60 | 55 |
| Doctors of Dental Medicine out of course | 6 | 10 | 0 | 0 | 0 |
| Masters of Arts | 122 | 136 | 147 | 154 | 148 |
| Master of Arts out of course | 0 | 0 | 0 | 1 | 0 |
| Master of Science | 1 | 0 | 0 | 0 | 0 |
| Doctors of Philosophy | 48 | 60 | 58 | 52 | 67 |
| Doctors of Science | 4 | 3 | 8 | 2 | 2 |
| Doctors of Engineering | .. | .. | .. | 1 | 1 |
| Metallurgical Engineers | 2 | 1 | 0 | 2 | 1 |
| Mining Engineers | 3 | 1 | 0 | 3 | 0 |
| Masters in Civil Engineering | 3 | 11 | 4 | 1 | 0 |
| Master in Civil Engineering out of course | 0 | 0 | 1 | 0 | 0 |
| Masters in Mechanical Engineering | 2 | 0 | 2 | 0 | 0 |
| Masters in Electrical Engineering | 4 | 13 | 10 | 0 | 0 |
| Masters in Architecture | 2 | 1 | 8 | 10 | 6 |
| Masters in Landscape Architecture | 3 | 10 | 9 | 1 | 3 |
| Masters in Forestry | 7 | 6 | 0 | 0 | 0 |
| Masters of Science in Botany | 0 | 0 | 2 | 1 | 2 |
| Master of Science in Geology | 0 | 0 | 1 | 0 | 0 |
| Masters of Science in Zoölogy | 0 | 0 | 1 | 2 | 1 |
| Masters of Science in Applied Biology | .. | .. | .. | 2 | 0 |
| Masters of Science in Civil Engineering | .. | .. | 1 | 4 | 4 |
| Masters of Science in Electrical Engineering | .. | .. | 10 | 4 | 6 |
| Masters of Science in Mechanical Engineering | .. | .. | 4 | 4 | 1 |
| Masters of Science in Sanitary Engineering | .. | .. | .. | 1 | 2 |
| Masters of Science in Forestry | .. | .. | 1 | 1 | 0 |
| Master of Science in Mining and Metallurgy | .. | .. | 1 | 0 | 1 |
| Masters in Business Administration | 10 | 28 | 27 | 37 | 50 |
| Totals | 1081 | 1082 | 1195 | 1226 | 1231 |

INDEX

| | PAGE |
|---|---------------|
| Academic Freedom | 17 |
| Adler, Herman Morris | 149 |
| Administrative Boards | 72, 93, 173 |
| Admission Examination Statistics | 274 |
| Admission Examinations, Standard of Marking | 272 |
| Admission from Other Colleges | 270, 272, 276 |
| Admission, New Plan of | 269-277 |
| Admission, Number of Applicants for | 269 |
| Admission, Old Plan of | 269-277 |
| Admission, Report of the Chairman of the Committee on | 68, 269 |
| Aeronautical Engineering, Instruction in | 227 |
| Agassiz, George R., Gift of | 217 |
| Age at Entrance | 274 |
| Agreement with Massachusetts Institute of Technology | 23 |
| Agreements with Affiliated Theological Schools | 127 |
| Allard, Louis | 15 |
| Alumni Endowment Fund | 26 |
| American Ambulance Corps | 67, 142, 288 |
| American Red Cross | 163, 271, 288 |
| Ames, Oakes, Gift of | 118, 205 |
| Andover-Harvard Library | 135 |
| APPLETON CHAPEL AND PHILLIPS BROOKS HOUSE, Report on | 195 |
| APPOINTMENT OFFICE, Report on | 284 |
| Faculty of Arts and Sciences | 284 |
| The Harvard Alumni Association | 288 |
| Appointments 25, 101, 114, 160, 161, 170, 175, 176, 177, 229, 231 | |
| Arequipa Station | 218 |
| ARNOLD ARBORETUM, Report on | 207 |
| Associate in Arts, Degree of | 264, 265 |
| "Athletic Heart" | 278 |
| ATHLETIC SPORTS, Report of the Chairman of the Committee on | 75 |
| Aviators, Tests for Selection of | 216 |
| Ayer, Nathaniel F. | 13 |
| Asan, Paul Jean Louis | 7, 29, 252 |
| Banks, Nathan | 231 |
| Bartol, Mrs. John W., Gift of | 229 |
| Bates, Henry Moore | 25, 140 |
| Bermuda Biological Station | 237 |
| Binney, Horace | 152 |
| Bjornstad, Alfred William | 6 |

| | |
|---|---------------|
| Blanchard, Raoul | 26 |
| Blaschka, Rudolph | 206 |
| Bliss, Mrs. William H., Gift of | 26, 122 |
| BLUE HILL OBSERVATORY, Report on | 219, 224 |
| Bonin, Cleophas Paul | 182 |
| Boston University School of Theology, Affiliation with | 127 |
| BOTANIC GARDEN, Report on | 202 |
| BOTANICAL MUSEUM, Report on | 205 |
| Botanical Raw Products Committee, Headquarters of | 15, 120 |
| Bowie, William T. | 160 |
| Bowditch, Edward, Jr., Gift of | 205, 243 |
| Bowen, William Storrs | 6, 9, 29, 109 |
| Boy Scouts, Instruction to | 202 |
| Bradley Bibliography | 208 |
| Brickley, William Joseph | 152 |
| Brigham, Ferdinand | 181 |
| British Expeditionary Force in France | 14, 181 |
| Brodeur, Adrian Paul | 182 |
| Bronfenbrenner, Jacques | 163 |
| Brown, Lloyd Thornton | 278 |
| Brown, Percy | 152 |
| Bureau of Appointments for Medical Alumni | 168 |
| Bureau of Business Research | 106 |
| BUSSEY INSTITUTION, Report on | 15, 118 |
| Anna C. Ames Scholarship | 118 |
| Botanical Raw Products Committee, National Research Council | 120 |
| Degrees conferred | 118 |
| Enrolment in Courses | 118 |
| Forestry Committee, National Research Council | 121 |
| Gift of Mrs. William H. Bliss | 122 |
| Harvard Forest | 122 |
| Investigations and Experiments | 119 |
| Registration | 118 |
| Byrne, James, Gift of | 141 |
| Cabot, Hugh | 14, 145, 152 |
| Cabot, Richard Clarke | 145, 173 |
| Cahill, Harry Philip | 165 |
| Caldwell, Frederick J. | 182 |
| Cancer Commission | 170 |
| Cannon, Walter Bradford | 145, 156 |
| Carnegie Institution of Washington | 150, 203, 230 |
| Central American Expedition | 240 |
| Certificates of Admission on Trial | 271 |
| Chapel Attendance | 195 |
| Charts of the Atmosphere for Aviators and Aeronauts | 220, 226 |
| CHEMICAL LABORATORY, Report on | 210 |
| Choate, Charles Francis, Jr., Gift of | 148 |
| Civil War, Registration before and after | 23 |
| Class of 1892, Gift of | 26 |
| Cobb, Farrar | 152 |
| College Entrance Examination Board | 272, 277 |

| | |
|--|---|
| Commission of National Research Council | 177 |
| Commission on Extension Courses | 262 |
| Committee on Admission, Statistics of | 274 |
| Copeland, Charles Townsend | 25 |
| Cordier, Constant | 5, 6, 9 |
| Councilman, William Thomas | 158, 177 |
| Crater of Kilauea, Hawaii, Curtis Model of | 232 |
| Crockett, Eugene Anthony | 145, 165 |
| CRUFT LABORATORY, Report on | 213 |
| Cushing, Harvey | 14, 142, 145, 152 |
| Davison, Archibald Thompson | 195 |
| Dawson, Jackson, Death of | 207 |
| Dearborn, Walter Fenno | 25, 216 |
| Deaths | 12, 24, 112, 142, 146, 153, 207, 224, 251 |
| Deaths of Students | 70, 279, 283 |
| Decrease in Number of Students | 16, 21, 71, 140 |
| Degrees conferred, 1913-17 | 298 |
| Dendrology, Instruction in | 208 |
| Dental Military Surgery, Special Course in | 181 |
| DENTAL SCHOOL, Report on | 14, 22, 179 |
| Alumni Banquet | 184 |
| Peter Bent Brigham Unit in France | 181 |
| Courses of Instruction | 179 |
| Dr. Franklin Dexter | 184 |
| Enrolment of Students | 179 |
| Fiftieth Anniversary | 181 |
| Gifts and Bequests | 181, 182 |
| Lectures and Investigations | 183 |
| Harriet N. Lowell Society for Dental Research | 183 |
| Publications | 183 |
| Red Cross Work in France and Serbia | 182 |
| Schiedal-Weston Transformer | 182 |
| Special Clinic for Men in Service | 181 |
| Special Course in Dental Military Surgery | 181 |
| Statistics | 181 |
| Dexter, Franklin | 167, 184 |
| Diminution of Income | 22, 26 |
| DIVINITY SCHOOL, Report on | 126 |
| Affiliation with Boston University School of Theology | 127 |
| Affiliation with Episcopal Theological School of Cambridge | 127 |
| Affiliation with Newton Theological Institution | 127 |
| Alumni Association | 126 |
| Andover-Harvard Library | 135 |
| Colleges and Theological Seminaries represented | 128 |
| Courses of Instruction | 131 |
| Degrees awarded | 130 |
| Enrolment | 127 |
| Interchange of Instruction | 128 |
| One Hundredth Anniversary, Celebration of | 126 |
| Francis Greenwood Peabody Professorship, Endowment of | 126 |
| War, Effect of | 126 |

| | |
|---|--|
| Doctor of Philosophy, Degree of | 94 |
| Doctor of Public Health, Degree of | 163, 172 |
| Dodd, Walter James, Death of | 146, 153 |
| Draper Memorial | 218 |
| Duane, William | 25, 170 |
| Dupont, Adolphe | 7, 29 |
| Dupries, Léon | 26, 29 |
| Edgell, George Harold | 24 |
| Educational Psychology, Laboratory Work in | 216 |
| Emmons, Arthur Brewster, 2d | 170 |
| Entrance Examinations, Results of | 269 |
| Entrance of United States into War | 6, 10, 67 |
| Episcopal Theological School, Affiliation with | 127 |
| Ernst, Harold Clarence | 160 |
| Evaporation in the Free Air, Study of | 224 |
| Exchange Professors | 26, 29, 127 |
| Exemption from Admission Examinations | 68, 271 |
| Exhibitions of Students' Work in Landscape Architecture | 116 |
| Expedition to Peru | 241 |
| Extension Courses, Commission on | 262 |
| Extra-mural Lectures and Courses in Medicine | 175 |
| FACULTY OF ARTS AND SCIENCES, Report on | 29 |
| Courses of Instruction | 29 |
| Faculty Votes | 66-68 |
| Military Science, Instruction in | 67 |
| Special Final Examinations for Students entering National Service | 67 |
| Visiting Professors | 29 |
| War, Effect of | 68 |
| Farnsworth Memorial Room | 186, 194 |
| Final Candidates for Admission, Definition of | 270 |
| Fitch, Albert Parker | 267 |
| Floyd, Cleaveland | 160 |
| Flynn, William Francis | 10 |
| Fogg Art Museum, Report on | 246 |
| Football | 75 |
| Forbes, Waldo Emerson, Death of | 224 |
| Forestry, Instruction in | 121 |
| Francke, Kuno | 25 |
| Frankfurter, Felix | 140 |
| French Ambulance Service | 10, 288 |
| French Officers | 7, 9, 29 |
| Freshman Class | 11, 71, 269, 278 |
| Freshman Halls | 8, 9, 11, 74, 195 |
| Freshmen, Physical Examination of | 278 |
| Geographical Distribution of Candidates for Admission | 276 |
| General Regulations governing Admission, New Rule | 270 |
| GERMANIC MUSEUM, Report on | 251 |
| Gifts | 26, 122, 141, 143, 148, 163, 181, 192, 200, 206, 209, 228, 229, 231-233, 238, 242, 243, 245, 246, 251 |
| Giraudoux, Jean | 7, 29 |
| Glass Flowers | 206 |

| | |
|--|---------------|
| Grades of College Work of Freshmen | 277 |
| GRADUATE SCHOOL OF ARTS AND SCIENCES, Report on | 77 |
| Administrative Board | 93 |
| Birthplaces of Students | 82 |
| Classification of Students | 78 |
| Colleges and Universities represented | 81 |
| Degrees, Recommendations for: 1915-17 | 83 |
| Doctors' Theses, Printing of | 94 |
| Fellows, Travelling and Resident | 90 |
| Fellowships and Scholarships | 89 |
| Geographical Distribution of Students | 81, 82 |
| Master of Arts, Degree of | 93 |
| Number of Students | 79 |
| Ph.D.'s of 1917 | 84 |
| Students from Harvard and from other Colleges | 80, 81, 82 |
| Tuition Fee, Effect of Increase in | 77 |
| War, Effect of | 77 |
| GRADUATE SCHOOL OF BUSINESS ADMINISTRATION, Report on | 12, 96 |
| Alumni Association | 108 |
| Appointments and Resignations | 101 |
| Bureau of Business Research | 108 |
| Changes in Courses | 102 |
| Colleges represented | 96 |
| Degrees conferred | 98 |
| Faculty, New Members of | 101 |
| Geographical Distribution of Students | 97 |
| Lecturers | 103, 108 |
| Loan Fund | 101 |
| Military Service | 108 |
| National Association of Employing Printers, Coöperation with | 107 |
| New Courses | 101 |
| Prizes | 101 |
| Registration | 96 |
| Special War Courses | 102 |
| GRADUATE SCHOOL OF MEDICINE, Report on | 173 |
| Administrative Board | 173 |
| Courses, Number of | 174 |
| Enrolment of Students | 173 |
| Extra-mural Lectures and Courses | 175 |
| Financial Status | 174 |
| Fiscal Year, Change in | 173 |
| Military Medicine, Instruction in | 175 |
| Receipts | 173 |
| Statistics | 173 |
| Summer Term | 173 |
| War, Effect of | 175 |
| GRAY HERBARIUM, Report on | 198 |
| Greene, Edward Forbes | 12 |
| Greenough, Robert Battey | 143, 152, 170 |
| Hagen, Hermann August | 231 |
| Hancock Collection of Minerals | 238 |

| | |
|--|---|
| Hartwell, John Bryant | 152 |
| Harvard African Studies | 240, 242 |
| Harvard Business School Association | 106 |
| HARVARD COLLEGE, Report on | 70 |
| A.B. Degree | 70 |
| Administrative Board | 72 |
| Assistant Deans | 74 |
| Credit for Year's Work, Record of | 73 |
| Deaths | 70 |
| Enrolment | 70 |
| Freshman Class, Decrease in | 71 |
| Freshman Halls | 74 |
| Holders of Scholarships | 71 |
| Infantile Paralysis Epidemic | 72 |
| Military Service on Mexican Border | 72 |
| National Service, Enlistment in | 73 |
| Probation and Readmission | 72 |
| S.B. Degree | 71 |
| Special Final Examinations | 73 |
| War, Effect of | 72 |
| Harvard Forest | 122 |
| Harvard Surgical Unit | 14, 142 |
| Harvard Training Corps | 10, 12, 103, 136, 195, 279 |
| HARVARD UNIVERSITY PRESS, Report on | 201, 252 |
| High Tension Electrical Laboratory, Cruft | 213 |
| Hill, Arthur Dehon | 140 |
| Hinchman, Mrs. Charles S., Gift of | 217 |
| Hinkley, Frank E. | 218 |
| Hockey | 75 |
| Holmes, Henry Wyman | 25 |
| Hospitals | 14, 142, 146-148, 151-153, 158, 159, 163, 170, 171, 176, 178, 182 |
| Hospital Units | 14, 142, 181 |
| Howe, George Plummer, Death of | 142 |
| Howe, Walter Clarke | 152 |
| Hundredth Anniversary of the Divinity School, Celebration of | 126 |
| Hunnewell, Walter, Gift of | 206 |
| Huntington Memorial Hospital | 170 |
| HYGIENE, DEPARTMENT OF, Report on | 278 |
| "Ice Saints," Paper on | 220, 227 |
| Income, Diminution of | 22, 26 |
| Increase in the Tuition Fee, Effect of | 77 |
| Infantile Paralysis Commission | 162, 171 |
| Instructors on Leave of Absence for War Service | 15, 140, 152, 165, 181 |
| Intensive Training | 6, 8, 102 |
| Intercollegiate Athletics, Suspension of | 75 |
| Iron Battalion, The | 9 |
| Jackson, Robert Tracy | 206 |
| Jaffar, John Hassan | 182 |
| Jarny, Marcel de | 7, 29 |
| JEFFERSON PHYSICAL LABORATORY, Report on | 212 |
| Kahn, Otto H., Gift of | 251 |

| | |
|--|----------------------------|
| Kales, Albert Martin | 25, 140 |
| Kasanjian, Varastad Hovhaness | 182 |
| Kimball, Theodora | 116 |
| Knowles, William Fletcher | 165 |
| Landscape Architecture, Exhibitions of Students' Work in | 116 |
| LAW SCHOOL, Report on | 22, 136 |
| Appointments | 140 |
| Courses of Instruction | 138 |
| Gift | 141 |
| Members of Teaching Staff in National Service | 140 |
| Number of Students, 1870-1917 | 137 |
| Registration, Decrease in | 140 |
| Resolutions adopted in regard to Students in National Service | 136 |
| War, Effect of | 140 |
| Legal Aid Bureau | 196 |
| LIBRARY, Report on | 186 |
| Accessions | 187, 189 |
| Additions to College Library Collection | 190 |
| Appendix | 189 |
| Circulation and Reference Department | 192 |
| Departmental Libraries | 188, 191 |
| Expenses on Book Account, 1912-17 | 190 |
| Extract from Librarian's Report | 189 |
| Farnsworth Room | 186, 194 |
| Gifts of the Year | 192 |
| Growth of Library | 187 |
| Special Reference Libraries | 191 |
| War, Effect of | 187 |
| Little, Clarence Cook | 74, 170 |
| Lovett, Robert Williamson | 171 |
| Lyman, Theodore | 25, 225 |
| McCann, William Sharp | 152 |
| Marine Biological Laboratory, Woods Hole | 237 |
| Massachusetts Institute of Technology, Coöperation with | 23 |
| Mauny, Jean de Reviers de | 7, 29 |
| Mawson, Thomas H. | 109, 115 |
| May Prizes | 101 |
| Mayo, Lawrence Shaw | 74 |
| MEDICAL ADVISER, Report of | 279 |
| Medical Reserve Corps | 12, 22, 144, 146, 158, 164 |
| MEDICAL SCHOOL, Report on | 12, 14, 22, 147 |
| Anatomy | 164 |
| Appointments | 158, 160, 161, 170 |
| Appointments Bureau | 168 |
| Bacteriology | 159 |
| Biological Chemistry | 157 |
| Cancer Commission | 170 |
| Comparative Pathology | 165 |
| Comparative Physiology | 155 |
| Degrees conferred | 163, 172 |
| Dermatology | 161 |

MEDICAL SCHOOL (continued)

| | |
|--|---|
| Diseases of the Nervous System | 148 |
| Dodd, Walter James, Death of | 153 |
| Gifts | 148, 151, 163, 168 |
| Gynaecology and Obstetrics | 166 |
| Hospitals | 147, 148, 151, 153, 158, 159, 163, 170, 171 |
| Laryngology | 164 |
| Library | 167 |
| Medicine | 147 |
| Minot Embryological Collection | 164 |
| National Service, Members of Teaching Staff in | 152, 164, 165, 166 |
| Ophthalmology | 162 |
| Orthopedic Surgery | 162 |
| Otology | 165 |
| Pathology | 158 |
| Pediatrics | 150 |
| Pharmacology | 149 |
| Physiology | 156 |
| Preventive Medicine and Hygiene | 162 |
| Publications and Researches | 147-166, 170 |
| Resignations | 149, 153, 158, 170 |
| Rice Expedition to the Amazon | 158 |
| School for Health Officers | 163 |
| Scholarships and Student Aid | 167 |
| Statistics | 172 |
| Surgery | 151 |
| Syphilology | 161 |
| War, Effect of | 147, 151, 153, 156, 158, 164, 166 |
| Warren Anatomical Museum | 166 |
| MEDICAL SCHOOL SCHOLARSHIPS, Report of Director of | 185 |
| MEDICINE, FACULTY OF, Report on | 142 |
| American Ambulance Hospital, Service in | 142 |
| Deaths | 142, 146 |
| Course and Honor Credits | 144 |
| Gift | 143 |
| Harvard Medical Unit | 142 |
| Hospitals | 142, 146 |
| Hospital Unit | 142 |
| Investigations | 145 |
| Lectures on Subjects relating to Army and Navy Medical Services. | 143 |
| Medical Education for Female Students | 144 |
| Medical Reserve Corps | 144, 146 |
| Members of Teaching Force in National Service | 142, 145 |
| Orthopedic Surgery, Special Instruction in | 143 |
| Registration, Increase in | 145 |
| Resignations and Appointment | 146 |
| Special Summer Courses for the Senior Class | 143 |
| Training for National Service | 143 |
| Members of Teaching Staff in War Service | 15, 140, 145, 152, 164, 165, 166, 181 |
| Mercier, Louis Joseph Alexandre | 15 |

| | |
|---|-------------------------------------|
| Mexican Border, Military Service on | 72 |
| Military Medicine, Instruction in | 12, 175 |
| Military Service and College Studies | 10 |
| Military Training | 5, 67, 76, 143 |
| Miller, Richard Henry | 152 |
| MINERALOGICAL MUSEUM AND LABORATORIES OF MINERALOGY AND PETROGRAPHY, Report on | 238 |
| Moore, Ernest Carroll | 25 |
| Morise, André | 7, 10, 29 |
| Morning Prayers | 195 |
| Münsterberg, Hugo, Death of | 24, 215 |
| MUSEUM OF COMPARATIVE ZOOLOGY, Report on | 229 |
| National Canners Association, Gift of | 163 |
| National Research Council | 120, 163, 177, 204, 227 |
| National Service Bureau | 288 |
| National Service, Enlistment in | 67, 73, 75, 108, 112, 116, 136, 288 |
| Naval Cadet School | 13, 196 |
| Naval Medical Men, Instruction to | 143, 152, 165, 175 |
| Naval Radio School | 13, 22, 197, 213 |
| Naval Reserve Course | 11 |
| Naval Reserve Medical Officers, Course for | 160 |
| Neilson, William Allan | 25 |
| Newton Theological Institution, Affiliation with | 127 |
| Number of Students, Decrease in | 14, 16, 21, 70, 140 |
| OBSERVATORY, Report on | 217 |
| Officers' Training Camps | 8, 9, 136 |
| Old Plan Admission Examinations | 269-274 |
| Osgood, Robert Bayley | 152 |
| Overton, Winfield Scott | 9 |
| Parker, Charles Pomeroy, Death of | 24, 72 |
| Parker, James P. | 13 |
| Peabody, Francis Weld | 145, 171 |
| PEABODY MUSEUM OF AMERICAN ARCHAEOLOGY AND ETHNOLOGY, Report on | 240 |
| Peabody Professorship of Social Ethics and Pastoral Care | 126 |
| Persons, Warren Milton | 26, 29 |
| Peruvian Expedition | 241 |
| Peters, Edward Dyer, Death of | 25 |
| Petersham Committee on Food Production and Conservation | 123 |
| Phillips Brooks House Association | 196 |
| Ph.D. Theses, Publication of | 94 |
| Physical Examination of Freshmen | 278 |
| Pickering Fellowship in Astronomy, Founding of | 217 |
| Pierce, George Washington | 25 |
| Porter, William Townsend | 145, 155 |
| Potter, William Henry | 181 |
| Ptomaine Poisoning, Study of | 163 |
| PSYCHOLOGICAL LABORATORY, Report on | 15, 215 |
| RADCLIFFE COLLEGE, Report on | 265 |
| Record of Students, Former Graduates, and Graduates in the War | 16 |

| | |
|--|----------------------------------|
| Red Cross | 68, 140, 163, 165, 182, 271, 288 |
| Registration before and after Civil War | 23 |
| Reserve Officers' Training Corps | 5, 8, 67, 103, 136, 197, 279 |
| Resignations | 25, 149, 153, 158, 170, 176 |
| Rice, Alexander Hamilton | 177, 241, 242 |
| Rice Expedition to the Amazon | 158, 177, 241 |
| Ropes, James Hardy | 26, 127 |
| Rosenau, Milton Joseph | 162, 163, 171 |
| Rotch, Abbott Lawrence | 220, 226 |
| Rowing | 75, 278 |
| Royce, Josiah, Death of | 24 |
| Rush, William R. | 13 |
| Sabine, Wallace Clement | 26 |
| Sayles, Robert Wilcox, Gift of | 232 |
| School for Ensigns | 13 |
| School for Health Officers | 163 |
| SCHOOL OF ARCHITECTURE, Report on | 110 |
| Accessions to Library | 111 |
| Colleges and Universities represented | 110 |
| Degrees conferred | 111 |
| Enrolment in Courses | 110 |
| Fellowships and Scholarships | 111 |
| Joint Problems on Design, Value of | 112 |
| Medals and Prizes, Award of | 111 |
| Registration | 110 |
| Students in National Service | 112 |
| Summer School Courses, Enrolment in | 111 |
| Warren, Herbert Langford, Death of | 112 |
| School of Engineering | 22 |
| SCHOOL OF LANDSCAPE ARCHITECTURE, Report on | 113 |
| Accessions to Library and Collections | 116 |
| Annual Trophy Competition | 116 |
| Appointments | 114 |
| Changes in Personnel of Staff | 114 |
| Colleges and Universities represented | 113 |
| Council of the School, Members of | 114 |
| Degrees conferred | 115 |
| Enlistments in War Service | 117 |
| Enrolment in Courses | 114 |
| Exhibitions | 116 |
| Fellowships | 115 |
| Kimball, Theodora | 116 |
| Lectures | 115 |
| Plant Portraits, Collection of | 116 |
| Registration | 113 |
| Summer Course | 117 |
| Scientific Units in Aerography, | 220, 227 |
| Selective Draft | 10, 144 |
| SEMITIC MUSEUM, Report on | 245 |
| Service of Students and Graduates in the War | 16 |
| Shannon, James Andrew | 6, 9, 29 |

| | |
|---|--|
| Smiley, Charles Newton | 28, 29 |
| Society of Friends of the Fogg Art Museum | 250 |
| Special Final Examinations | 67, 73 |
| Special Students | 263 |
| Special War Courses given by Graduate School of Business Administration | 12, 102 |
| Stillman Infirmary | 279, 283 |
| Stone, James Savage | 152 |
| Strong, Richard Pearson | 145, 177 |
| STUDENT EMPLOYMENT, Report of Secretary of | 293 |
| Studies in War-Time | 11 |
| Summer Courses | 111, 117, 143, 256 |
| Summer School Lectures relating to the War | 13, 259 |
| SUMMER SCHOOL OF ARTS AND SCIENCES | 255 |
| Sunday Opening of the Peabody Museum | 243 |
| Sunday School | 195 |
| Surgical Pathology, Special Course of Lectures to Army Surgeons | 152 |
| Surgical Shock, Investigations in | 145, 155, 156 |
| Surgical Units | 14, 142 |
| Taylor, Edward Wyllys | 25, 149 |
| Thayer, John Eliot, Gift of | 233 |
| Training for Officers, Course of | 5 |
| TREES, Report on | 297 |
| Trenches, Construction of | 8 |
| TROPICAL MEDICINE, SCHOOL OF | 176 |
| Instruction and Routine | 177 |
| Investigations and Expeditions | 176 |
| Personnel of Staff | 177 |
| Publications | 177 |
| Rice Expedition to the Amazon | 177 |
| Teague, Oscar | 176 |
| United Fruit Company | 178 |
| Tuition Fee | 22, 26, 77 |
| Typothetae of America | 107 |
| United Fruit Company | 178 |
| University Choir | 195 |
| UNIVERSITY EXTENSION, Report on | 255 |
| University Press | 201, 252 |
| Vincent, Beth | 152 |
| Visiting Professors | 26, 29 |
| Wade, Walter Elton | 182 |
| Wambaugh, Eugene | 140 |
| War Service by Members of Teaching Staff of the University | 15, 103, 117, 140, 152, 164, 165, 166, 177, 182 |
| War, The | 5-16, 24, 29, 66, 195, 206, 252, 255, 271, 279, 284, 288 |
| Warren, Herbert Langford, Death of | 25, 112, 251 |
| Warren, J. Collins | 176 |
| Watson, Raymond Henry | 182 |
| Wendell, Barrett | 25 |
| White, Charles Joyce, Death of | 25 |
| White, John Williams, Death of | 25 |

| | |
|--|----------|
| Widener Library | 186 |
| Women, Medical Education for | 144, 268 |
| Woods, James Haughton | 7, 9 |
| Yeomans, Henry Aaron | 26 |
| Y. M. C. A. Hut | 13, 197 |
| Zoölogical Laboratory, Report on | 235 |

TREASURER'S STATEMENT

CONTENTS

| | PAGE |
|--|------|
| EXHIBIT A. Balance Sheet, | 6 |
| B. Consolidated Statement of Income and Expenditure, . . | 8 |
| C. Part I. Income and Expenditure by Departments, . . . | 10 |
| Part II. Summary of Analyzed Income and Expenditure . | 12 |
| D. Gifts for Capital, | 18 |
| E. Gifts for Immediate Use, | 29 |
| SCHEDULE 1. Special Investments, | 59 |
| 2. Securities—General Investments, | 68 |
| 3. Land and Buildings—General Investments, | 76 |
| 4. Funds and Gifts, | 78 |
| 5. Part I. Significant Increases and Decreases, | 147 |
| Part II. Reserves for Depreciation and Maintenance, . | 147 |
| Part III. Summary of Changes in General Suspense, . . | 148 |
| Part IV. Summary of Changes in Funds and Gifts, . . . | 148 |
| 6. Part I. General Suspense, Credit Balances, | 149 |
| Part II. General Suspense, Debit Balances, | 150 |
| 7. University, Income and Expenditure, | 152 |
| 8. College, Income and Expenditure, | 160 |
| 9. Library, Income and Expenditure, | 171 |
| 10. University, College, and Library Combined Accounts, . . | 177 |
| 11. Summer Schools, Income and Expenditure, | 177 |
| 12. Schools of Architecture and Landscape Architecture, Income and Expenditure, | 179 |
| 13. Schools of Engineering and Mining, Income and Expend- iture, | 181 |
| 14. Graduate School of Business Administration, Income and Expenditure, | 183 |
| 15. Divinity School, Income and Expenditure, | 185 |
| 16. Law School, Income and Expenditure, | 189 |
| 17. Medical School, Income and Expenditure, | 191 |
| 18. Graduate School of Medicine, Income and Expenditure, . | 199 |
| 19. Dental School, Income and Expenditure, | 200 |
| 20. Bussey Institution, Income and Expenditure, | 202 |
| 21. Arnold Arboretum, Income and Expenditure, | 204 |
| 22. Botanic Garden, Income and Expenditure, | 205 |
| 23. Botanical Museum, Income and Expenditure, | 206 |
| 24. Gray Herbarium, Income and Expenditure, | 207 |
| 25. Observatory, Income and Expenditure, | 208 |
| 26. Blue Hill Observatory, Income and Expenditure, | 210 |
| 27. Museum of Comparative Zoölogy, Income and Expendi- ture, | 211 |

| | PAGE |
|--|------|
| 28. Peabody Museum of American Archaeology and Ethnology, Income and Expenditure, | 213 |
| 29. Semitic Museum, Income and Expenditure, | 215 |
| 30. Germanic Museum, Income and Expenditure, | 216 |
| 31. William Hayes Fogg Art Museum, Income and Expenditure, | 217 |
| 32. Appleton Chapel, Income and Expenditure, | 219 |
| 33. Phillips Brooks House, Income and Expenditure, | 220 |
| 34. Hemenway Gymnasium, Income and Expenditure, | 221 |
| 35. Stillman Infirmary, Income and Expenditure, | 222 |
| 36. Non-Departmental Funds and Gifts for Special Purposes, Income and Expenditure, | 223 |

TREASURER'S STATEMENT FOR 1916-17

TO THE BOARD OF OVERSEERS OF HARVARD COLLEGE:—

The Treasurer submits the annual statement of the financial affairs of the University, for the year ending June 30, 1917.

The net income of the general investments for this period was divided at the rate of 5.15 per cent among the Funds to which these investments belong.

From the income of all bonds bought at a premium for general investments \$7,678.05 was credited to the various accounts concerned, and for special investments \$297.15, as the fair yearly repayment to make good the premiums at the maturity of the bonds.

CHARLES F. ADAMS, *Treasurer*.

Boston, November, 1917.

BALANCE SHEET

June 30, 1917

ASSETS

CASH IN BANKS:

| | | |
|---------------------------------------|------------------|--------------|
| Treasurer—General, | \$192,845.59 | |
| Treasurer—Special—Schedule 1, | 2,988.01 | |
| Bursar, | <u>42,248.64</u> | \$237,532.24 |

ACCOUNTS RECEIVABLE:

| | | |
|---|-----------------|------------|
| Term Bills of January, 1917, | \$1,848.90 | |
| Term Bills of June, 1917, | 149,857.56 | |
| Sundry accounts of Bursar's Office, | 9,010.50 | |
| Interest accrued, | <u>3,116.10</u> | 163,333.06 |

INVENTORY—Stores, 10,934.01

INSURANCE UNEXPIRED, 19,260.60

INVESTMENTS:

| | | |
|---|---------------------|---------------|
| Securities—Special—Schedule 1, page 59, | \$3,162,808.77 | |
| Securities—General—Schedule 2, page 68, | 22,628,376.15 | |
| Land and Buildings—Sp.—Sched. 1, p. 59, | 1,885,417.38 | |
| Land and Buildings—Gen'l—Sched. 3, p. 76, | <u>4,685,390.57</u> | 32,361,492.87 |

GENERAL SUSPENSE:

| | |
|---|-------------------------------|
| Advances in Anticipation of Funds and Gifts or of income (net) Schedule 6, page 149, | <u>430,095.49</u> |
| | <u><u>\$33,223,648.27</u></u> |

EXHIBIT A**BALANCE SHEET**

June 30, 1917

LIABILITIES**ACCOUNTS PAYABLE:**

| | | |
|--|------------------|--------------|
| Salaries, | \$178,281.62 | |
| Deposits and Advance Payments, | <u>28,214.70</u> | \$201,446.82 |

FUNDS AND GIFTS, Schedule 4, page 78.

| | | |
|---|-------------------|----------------|
| Restricted uses, Income only available, . . . | \$28,847,826.18 | |
| “ “ Principal and Income available, . . . | 1,699,264.94 | |
| Unrestricted uses, Income only available, . . | 1,650,054.54 | |
| “ “ Principal and Income available, | <u>739,248.68</u> | \$2,436,394.84 |

GAINS AND LOSSES ON GENERAL INVESTMENTS SOLD, 552,526.68

INCOME ON GENERAL INVESTMENTS UNAPPORTIONED, 2,499.54

RESERVES FOR DEPRECIATION AND MAINTENANCE, SCHEDULE
5, PART II, p. 147, 29,781.89

\$33,222,648.27

CONSOLIDATED STATEMENT OF INCOME AND EXPENDITURE

For the year ended June 30, 1917

INCOME

INCOME FROM FUNDS AND GIFTS

| | Income from Funds and Gifts | General Income | Totals |
|--|--------------------------------|----------------|-----------------------|
| From SPECIAL INVESTMENTS, | | | |
| Interest and Dividends— Schedule 1, . . . | \$129,591.87 | | |
| Rents of Land and Buildings, | \$155,940.90 | | |
| Less Operating Expenses, | 78,306.58 | | |
| Net Income— Schedule 1, | 82,635.32 | | |
| From GENERAL INVESTMENTS, | | | |
| Interest and Dividends on | | | |
| Securities— Schedule 2, | \$1,038,688.04 | | |
| Bank Balances, | 8,509.78 | | |
| Advances to Departments and Miscel- laneous, | 19,464.60 | 1,061,662.42 | |
| Rents of Land and Buildings, | \$340,502.82 | | |
| Less Operating Expenses, | 68,067.28 | | |
| Net Income— Schedule 3, | 272,435.59 | | |
| Gifts for Immediate Use— Exhibit E, | 388,910.83 | | |
| Miscellaneous income included in receipts for departmental and non-departmental activities, | 77,451.34 | | |
| | <u>\$2,012,687.87</u> | | <u>\$2,012,687.87</u> |

GENERAL INCOME

| | | | |
|---|-----------------------|-----------------------|-----------------------|
| Tuition Fees, | \$905,043.36 | | |
| Laboratory Fees, | 36,444.89 | | |
| Other Fees, | 41,929.64 | | |
| Gross Rents of College Dormitories, | 166,989.72 | | |
| Miscellaneous Income, | 120,775.62 | | |
| | <u>\$1,271,182.78</u> | <u>1,271,182.78</u> | |
| Total Income, | | | <u>\$3,283,830.11</u> |
| General Suspense, balance, | | | |
| Exhibit C, Part II, page 12, | | | 14,761.3 |
| | <u>\$2,012,687.87</u> | <u>\$1,271,182.78</u> | <u>\$3,269,058.7</u> |

EXHIBIT B

CONSOLIDATED STATEMENT OF INCOME AND EXPENDITURE

For the year ended June 30, 1917

EXPENDITURE

| | Income from Funds and Gifts | General Income | Totals |
|--|--------------------------------|----------------|----------------|
| Administrative Purposes, | \$5,555.69 | \$210,213.74 | \$215,769.43 |
| Departments of Instruction, | 680,108.27 | 1,150,533.95 | 1,780,642.22 |
| Other Activities, | 619,477.82 | 108,515.97 | 727,993.79 |
| Repairs and equipment of College dormitories, | 202,311.64 | 11,968.78 | 214,280.87 |
| Repairs and equipment of College dormitories, | | 34,238.80 | 34,238.80 |
| Heating and operating expenses of College dormitories, | | 82,639.76 | 82,639.76 |
| Repairs and equipment of land and buildings for general purposes, | | 81,205.81 | 81,205.81 |
| Heating and operating expenses of land and buildings for general purposes, | | 103,490.37 | 103,490.37 |
| Total Expenditure, | \$1,457,453.42 | \$1,732,807.13 | \$3,190,260.55 |
| Balance of unexpended restricted income transferred to Funds and Gifts, Exhibit C, Part II, page 12, | \$78,097.94 | | |
| Increase in Income unapportioned, | 700.22 | 78,798.16 | 78,798.16 |
| | \$1,586,251.58 | | |
| Applied to purposes of general income), | 476,435.79 | | |
| Amount transferred from restricted income), | | 476,435.79 | |
| | | \$1,256,371.34 | |
| Balance, contra), | | 14,761.89 | |
| | | \$2,012,687.37 | |
| | | \$1,271,132.73 | \$3,269,058.71 |

INCOME AND EXPENDITURE

For the year ended

Income

| | Restricted | General | Totals |
|--|----------------|----------------|----------------|
| University (Sch. 7), | \$67,431.25 | \$15,893.80 | \$83,325.05 |
| College, including Graduate School of Arts and Sciences (Sch. 8), . . | 654,516.09 | 738,945.81 | 1,393,461.90 |
| Library (Sch. 9), | 103,193.50 | 2,730.77 | 105,924.27 |
| Summer Schools (Sch. 11), | 536.63 | 47,017.39 | 47,554.02 |
| Schools of Architecture and Landscape Architecture (Sch. 12), | 74,593.81 | 9,503.93 | 84,097.74 |
| Schools of Engineering and Mining (Sch. 13), | 75,476.44 | 14,628.62 | 90,105.06 |
| Graduate School of Business Adminis- tration (Sch. 14), | 44,106.11 | 36,018.84 | 80,124.95 |
| Divinity School (Sch. 15), | 45,890.90 | 8,206.70 | 53,597.60 |
| Law School (Sch. 16), | 52,242.77 | 129,650.23 | 181,893.05 |
| Medical School (Sch. 17), | 346,920.37 | 147,195.58 | 494,115.95 |
| Graduate School of Medicine (Sch. 18), | 19,686.58 | 41,914.75 | 61,601.33 |
| Dental School (Sch. 19), | 5,902.51 | 53,453.26 | 59,355.77 |
| Bussey Institution (Sch. 20), | 38,433.56 | 2,315.00 | 40,748.56 |
| Arnold Arboretum (Sch. 21), | 66,676.05 | ..... | 66,676.05 |
| Botanic Garden (Sch. 22), | 11,513.53 | ..... | 11,513.53 |
| Botanical Museum (Sch. 23), | 2,930.28 | ..... | 2,930.28 |
| Gray Herbarium (Sch. 24), | 19,027.98 | ..... | 19,027.98 |
| Observatory (Sch. 25), | 62,983.05 | ..... | 62,983.05 |
| Blue Hill Meteorological Observatory (Sch. 26), | 9,383.83 | ..... | 9,383.83 |
| Museum of Comp. Zoölogy (Sch. 27), | 53,514.13 | ..... | 53,514.13 |
| Peabody Museum of American Archae- ology and Ethnology (Sch. 28), . . | 22,544.67 | ..... | 22,544.67 |
| Semitic Museum (Sch. 29), | 2,378.78 | ..... | 2,378.78 |
| Germanic Museum (Sch. 30), | 6,967.33 | ..... | 6,967.33 |
| William Hayes Fogg Art Museum (Sch. 31), | 22,148.07 | ..... | 22,148.07 |
| Appleton Chapel (Sch. 32), | 10,627.83 | ..... | 10,627.83 |
| Phillips Brooks House (Sch. 33), . . | 2,045.75 | ..... | 2,045.75 |
| Hemenway Gymnasium (Sch. 34), . . | ..... | 2,323.75 | 2,323.75 |
| Stillman Infirmary (Sch. 35), | 4,889.03 | 21,334.25 | 26,223.28 |
| <i>Less</i> Deficits included in the above expenditure of other departments and deducted to show the net expenditure, Hemenway Gymnasium, . \$10,300.75 Stillman Infirmary, 8,708.55 | | | |
| Total for Departments, | \$1,826,060.83 | \$1,271,132.73 | \$3,097,193.56 |
| Non-departmental Funds and Gifts for Special Purposes (Sch. 36), | 185,926.82 | ..... | 185,926.82 |
| | \$2,011,987.15 | \$1,271,132.73 | \$3,283,119.88 |
| Income, on general investments, un- apportioned, | 700.22 | ..... | 700.22 |
| Totals to Part II, | \$2,012,687.37 | \$1,271,132.73 | \$3,283,820.10 |

* A department may have both a balance and a deficiency in its analyzed figures,

EXHIBIT C, PART I

BY DEPARTMENTS

June 30, 1917

| Expenditure | | Balances* | Analysis of Balances | | | |
|----------------|---|-----------------------|--|--|--|---|
| | Balances of unexpended income reserved for expenditures to be made. | Deficiency of income. | Balances of income from restricted funds reserved for restricted purposes. | Excess of expenditure from restricted funds met from balances brought from previous years or from other sources. | Balances of general income allotted to the department, or balances of income from specific funds applied to repay former advances. | Excess of expenditure over income allotted to the department. |
| \$158,608.82 | \$2,947.87 | \$78,281.14 | \$2,678.77 | \$55,811.12 | \$269.10 | \$22,420.02 |
| 1,232,725.06 | 186,491.13 | 25,754.29 | 184,218.51 | 24,119.31 | 2,277.62 | 1,634.98 |
| 147,886.67 | 18,384.31 | 55,845.71 | 12,929.77 | 55,840.89 | 454.54 | 4.82 |
| 44,622.91 | 8,806.11 | 375.00 | 114.60 | 375.00 | 3,191.51 | ..... |
| 52,460.01 | 31,637.73 | ..... | 31,637.73 | ..... | ..... | ..... |
| 137,003.98 | 2,523.91 | 49,422.83 | 2,523.91 | 49,422.83 | ..... | ..... |
| 75,884.84 | 6,026.23 | 1,786.12 | 2,225.18 | 1,786.12 | 3,801.10 | ..... |
| 52,159.03 | 2,092.34 | 653.77 | 2,092.34 | 583.77 | ..... | 70.00 |
| 156,194.43 | 26,228.55 | 529.93 | 4,898.93 | 529.93 | 21,329.62 | ..... |
| 482,429.31 | 37,569.59 | 25,883.55 | 37,569.59 | 21,556.57 | ..... | 4,326.98 |
| 45,781.55 | 19,694.08 | 8,874.25 | 10,973.49 | 3,874.25 | 8,720.54 | ..... |
| 67,512.16 | 290.87 | 8,447.26 | 290.87 | 1,861.62 | ..... | 7,085.64 |
| 43,004.88 | 448.84 | 2,705.16 | 448.84 | 32.93 | ..... | 2,672.23 |
| 58,176.30 | 8,499.75 | ..... | 8,499.75 | ..... | ..... | ..... |
| 7,326.88 | 4,187.15 | ..... | ..... | ..... | 4,187.15 | ..... |
| 2,126.69 | 803.59 | ..... | 34.24 | ..... | 769.35 | ..... |
| 18,795.26 | 232.72 | ..... | ..... | ..... | 232.72 | ..... |
| 54,826.22 | 8,978.43 | 821.60 | 8,978.43 | 821.60 | ..... | ..... |
| 7,656.24 | 1,727.59 | ..... | 1,727.59 | ..... | ..... | ..... |
| 44,624.02 | 9,006.34 | 116.23 | 2,162.98 | 116.23 | 6,843.36 | ..... |
| 19,957.82 | 2,679.20 | 92.35 | 2,487.30 | 92.35 | 191.90 | ..... |
| 3,530.30 | 332.70 | 1,484.22 | 332.70 | 1,484.22 | ..... | ..... |
| 2,316.83 | 4,884.85 | 233.85 | 2,940.42 | 233.85 | 1,944.43 | ..... |
| 25,337.30 | 636.55 | 3,825.78 | 636.55 | 3,825.78 | ..... | ..... |
| 10,408.56 | 219.27 | ..... | 219.27 | ..... | ..... | ..... |
| 2,630.86 | 294.19 | 879.30 | 294.19 | 879.30 | ..... | ..... |
| 12,624.50 | ..... | ..... | ..... | ..... | ..... | ..... |
| 29,442.07 | 489.76 | ..... | 489.76 | ..... | ..... | ..... |
| \$2,996,051.60 | | | | | | |
| 14,009.30 | | | | | | |
| \$2,982,042.30 | 875,613.60 | 260,462.34 | \$321,400.66 | \$222,247.67 | \$54,212.94 | \$38,214.67 |
| 208,218.25 | 45,811.80 | 68,103.73 | 45,811.80 | 66,866.85 | ..... | 1,286.88 |
| \$3,190,260.55 | \$421,425.40 | \$328,566.07 | \$367,212.46 | \$289,114.52 | \$54,212.94 | \$39,451.55 |
| ..... | 700.22 | ..... | 700.22 | ..... | ..... | ..... |
| \$3,190,260.55 | \$422,125.62 | \$328,566.07 | \$367,912.68 | \$289,114.52 | \$54,212.94 | \$39,451.55 |

for some specific restricted funds may have balances and some may have deficiencies.

EXHIBIT C, PART II**SUMMARY OF ANALYZED INCOME AND EXPENDITURE****NET ACCUMULATION OF INCOME**

| | | |
|-----------------------------|---------------------|---------------------------|
| Income, | \$3,288,820.10 | |
| Expenditures, | <u>8,190,260.55</u> | |
| Net accumulation, | | <u><u>\$98,559.55</u></u> |

SUMMARY OF BALANCES AND DEFICIENCIES

| | | |
|--|-------------------|---------------------------|
| Departments and activities with balances of unexpended income, | \$422,125.62 | |
| Departments and activities with deficiencies of income, | <u>328,566.07</u> | |
| Net accumulation, | | <u><u>\$98,559.55</u></u> |

DISTRIBUTION OF BALANCES AND DEFICIENCIES

| | | |
|--|-------------------|---------------------------|
| Departmental balances of income from restricted funds, | \$321,400.66 | |
| Departmental deficits of income from restricted funds, | <u>222,247.67</u> | |
| Departmental balances reserved for restricted purposes, | | \$99,152.99 |
| Non-departmental deficits of income from restricted funds, | \$66,866.85 | |
| Non-departmental balances of income from restricted funds, | <u>45,811.80</u> | |
| Non-departmental deficits met by charges against Funds and Gifts, | | <u>21,055.05</u> |
| Total unexpended restricted income transferred to Funds and Gifts, | | \$78,097.94 |
| Income unapportioned, | | <u>700.22</u> |
| | | \$78,798.16 |
| Balances of income from general income, | \$54,212.94 | |
| Deficits of income from general income, | <u>89,451.55</u> | |
| Net balance carried to Exhibit B, | | <u>14,761.89</u> |
| | | <u><u>\$98,559.55</u></u> |

EXHIBIT D

GIFTS FOR CAPITAL

For the year ended June 30, 1917

ESTABLISHING NEW FUNDS OR INCREASING OLD ONES

Arnold Arboretum:

Endowment Fund:

| | |
|-------------------------------------|------------|
| Mrs. George R. Agassiz | \$5,000.00 |
| F. Lothrop Ames | 20,000.00 |
| John S. Ames | 20,000.00 |
| Miss Ellen S. Bacon | 2,000.00 |
| Walter C. Baylies | 2,000.00 |
| Mrs. Arthur W. Blake | 2,000.00 |
| Mrs. Walter S. Brewster | 250.00 |
| Miss Helen O. Brice | 1,000.00 |
| Shepherd Brooks | 2,000.00 |
| Alexander Cochrane | 2,000.00 |
| Mrs. Charles P. Curtis | 100.00 |
| Mrs. W. Bayard Cutting | 1,000.00 |
| Henry A. Du Pont } | 5,000.00 |
| Henry F. Du Pont } | |
| Miss Hannah M. Edwards | 250.00 |
| William Endicott | 1,000.00 |
| Mrs. Robert D. Evans | 10,000.00 |
| Mrs. L. Carteret Fenno | 1,250.00 |
| Mrs. W. Scott Fitz | 1,000.00 |
| Mrs. Louis A. Frothingham | 20,000.00 |
| William A. Gaston | 1,000.00 |
| Mrs. Henry S. Grew | 500.00 |
| Augustus Hemenway | 5,000.00 |
| Henry Hornblower | 2,500.00 |
| Henry S. Hunnewell | 20,000.00 |
| Walter Hunnewell | 20,000.00 |
| Mrs. Arthur Curtiss James | 500.00 |
| George G. Kennedy | 300.00 |
| Nathaniel T. Kidder | 1,000.00 |
| David P. Kimball | 1,000.00 |
| Mrs. Horatio A. Lamb | 1,000.00 |
| Clarence H. Mackay | 500.00 |
| Miss Susan Minns | 1,000.00 |
| Frederick S. Moseley | 1,000.00 |
| Frank E. Peabody | 1,000.00 |
| George A. Peabody | 1,000.00 |
| Dudley L. Pickman | 2,500.00 |

Amount carried forward, . . . \$155,650.00

Amount brought forward, . . . \$155,850.00

Arnold Arboretum (*continued*):

Endowment Fund (*continued*):

| | | |
|-------------------------------------|-----------|--------------|
| Mrs. Harold I. Pratt | 500.00 | |
| Henry H. Richardson | 200.00 | |
| Mrs. Jacob C. Rogers | 3,000.00 | |
| Mrs. Robert S. Russell | 100.00 | |
| Charles S. Sargent, Jr. | 2,000.00 | |
| Miss Georgiana W. Sargent | 1,000.00 | |
| Mrs. Winthrop Sargent | 25,000.00 | |
| Mrs. Richard D. Sears | 1,000.00 | |
| Galen L. Stone | 10,000.00 | |
| Nathaniel H. Stone | 1,000.00 | |
| John E. Thayer | 5,000.00 | |
| Mrs. W. Seward Webb | 2,500.00 | |
| Frank G. Webster | 10,000.00 | |
| Mrs. Charles G. Weld | 1,000.00 | |
| William P. Wharton | 2,000.00 | \$219,950.00 |

"Massachusetts Society for Promoting Agriculture Fund":

| | |
|--|--------|
| Massachusetts Society for Promoting Agriculture | 500.00 |
|--|--------|

Blue Hill Meteorological Observatory:

Waldo E. Forbes:

| | |
|--|----------|
| The income to be applied as the income of the A. Lawrence Rotch bequest is applied | 6,000.00 |
|--|----------|

Graduate School of Business Administration:

Endowment Fund:

| | | |
|---------------------------------|------------|--------------|
| Oakes Ames | \$1,000.00 | |
| Arthur F. Estabrook | 1,000.00 | |
| Ronald T. Lyman | 100.00 | |
| J. Franklin McElwain | 500.00 | |
| Charles J. Prescott | 500.00 | |
| Abraham Shuman | 1,000.00 | 4,100.00 |
| Amount carried forward, | | \$230,550.00 |

| | |
|-------------------------------|--------------|
| Amount brought forward, . . . | \$230,550.00 |
|-------------------------------|--------------|

Bussey Institution — Graduate School of Applied Biology:

Mrs. William H. Bliss:

"one-half of the income of which is to be applied towards the establishment and support of scholarships in the Division of Forestry and the other half of the income of which is to be applied towards the support of a professorship in the Division of Forestry, or generally towards the expenses of maintaining instruction and research in the study of forestry, or for the support of instruction or research in arboriculture, silviculture or sciences directly subservient to forestry.":

| | |
|--------------------------------|-----------|
| Securities valued at | 50,000.00 |
|--------------------------------|-----------|

College:

Anonymous Fund No. 3:

"I should like the entire income received applied to the teaching fund, and I should like to have the privilege of giving a name to some existing Professorship.":

| | | |
|--------------------------------|--------------|------------|
| Cash | \$297,942.00 | |
| Securities valued at | 90,000.00 | 387,942.00 |

"The Louise E. Bettens Fund":

Established by her children:

| | |
|----------------------|----------|
| Additional | 5,000.00 |
|----------------------|----------|

"Victor Emanuel Chapman Memorial Fellowship":

In memory of Victor Emanuel Chapman, of the Class of 1913. "It is . . . the desire of the contributors that the annual income of the Fellow-

| | |
|-------------------------------|--------------|
| Amount carried forward, . . . | \$673,492.00 |
|-------------------------------|--------------|

| | |
|-------------------------------|--------------|
| Amount brought forward, . . . | \$673,492.00 |
|-------------------------------|--------------|

College (*continued*):"Victor Emanuel Chapman Memorial Fellowship" (*continued*):

ship be offered to a French youth (or youths, in the event of the growth of the fund to such an amount that the income thereof would justify such action) for study in one department or another of Harvard University . . . ":

| | | |
|--------------------------------|-------------|-----------|
| Cash | \$15,897.00 | |
| Securities valued at | 10,000.00 | 25,897.00 |

Gordon Abbott
 George R. Agassiz
 Mrs. Richard Aldrich
 Vincent Astor
 Edward W. Atkinson and Mrs. Atkinson
 Robert Bacon
 Virgil B. Barker
 Walter C. Baylies
 Ralph Beatley
 Robert W. Bliss
 Edward D. Brandegee and Mrs. Brandegee
 Thomas Buel
 Heman Merrick Burr
 Henry B. Cabot
 Charles Carroll of Carrollton
 Lewis S. Chanler
 Winthrop Chanler
 John Jay Chapman
 Archibald Cary Coolidge
 Thomas K. Cummins
 Ralph Curtis
 R. Bayard Cutting
 Paul R. Danner
 Charles T. Davis
 Charles Stewart Davison
 Anthony B. Day
 Tracy Dows
 William A. Drayton
 Henry T. Duer
 Henry C. Everett, Jr.
 William Farnsworth
 Amos T. French
 Friend of his father

| | |
|-------------------------------|--------------|
| Amount carried forward, . . . | \$699,389.00 |
|-------------------------------|--------------|

Amount brought forward, . . . \$699,389.00

College (*continued*):

"Victor Emanuel Chapman Memorial Fellowship" (*continued*):

Richard Van N. Gambrill
 William Amory Gardner
 Thomas Gorham
 L. Gordon Hamersley
 Bishop S. Harrold
 Alexander I. Henderson
 Mrs. Samuel N. Hinckley
 C. Gouverneur Hoffman
 William S. Howe
 John T. L. Jeffries
 Mrs. Le Roy King
 Theodore B. Lewis
 Edward A. Lincoln
 Joseph G. Macdonough
 Charles MacVeagh and Mrs. MacVeagh
 Lincoln MacVeagh
 Mrs. John Markoe
 Miss Fanny P. Mason
 John G. Milburn
 Peyton F. Miller
 Sedgwick Minot
 Mrs. Robert B. Minturn
 Robert S. Minturn and Mrs. Minturn
 John F. Moors
 J. Pierpont Morgan
 John A. Morris
 Richard Mortimer, Jr.
 George M. Nowell
 Robert P. Perkins
 William Phillips and Mrs. Phillips
 Edward M. Pickman and Mrs. Pickman
 Arthur S. Pier
 Herbert D. Robbins
 G. Hall Roosevelt
 Mrs. Arthur Ryerson
 Richard D. Sears
 Lawrence E. Sexton
 Miss Clara Lee Shattuck
 Timothy M. Spelman, 2d
 Charles W. Stone
 Mrs. E. Rutherford Stuyvesant
 Scofield Thayer

Amount carried forward, . . . \$699,389.00

| | |
|-------------------------------|---------------------|
| Amount brought forward, . . . | \$699,389.00 |
|-------------------------------|---------------------|

College (*continued*):"Victor Emanuel Chapman Memorial Fellowship" (*continued*):

William G. Thayer
 William R. Thayer
 Clarke Thomson
 Malcolm Thomson
 J. Kennedy Tod
 Mrs. William Austin Wadsworth
 Edgar H. Wells
 Alexander M. White
 Henry White
 Egerton L. Winthrop
 Owen Wister
 Oliver Wolcott

"Fund of the Class of 1856":

| | |
|----------------------|-----------------|
| Additional | 2,000.00 |
|----------------------|-----------------|

Class of 1857 Fund:

"... On the extinction of the Class
 the entire fund shall be devoted to
 the general purposes of the College
 as decided by the President and
 Fellows."

| | |
|--------------------------------|-----------------|
| Securities valued at | 5,000.00 |
|--------------------------------|-----------------|

"The Scholarship Fund of the Class of 1863":

| | |
|----------------------|-----------------|
| Additional | 2,500.00 |
|----------------------|-----------------|

T. Jefferson Coolidge Fund (*Research in Physics*):

| | |
|---------------------------------|-----------------|
| T. Jefferson Coolidge | 1,000.00 |
|---------------------------------|-----------------|

Alexis Irenée Du Pont Fund:

Alexis Irenée Du Pont:

His subscription to the Harvard Endowment Fund, with the special designation that it be used for the purposes of the Chemical Department:

| | |
|--------------------------------|------------------|
| Securities valued at | 93,000.00 |
|--------------------------------|------------------|

| | |
|-------------------------------|---------------------|
| Amount carried forward, . . . | \$802,889.00 |
|-------------------------------|---------------------|

Amount brought forward, . . . \$802,889.00

College (*continued*):

"Edwin William Friend Memorial Fund":

In memory of Edwin William Friend, of the Class of 1908, "for aiding students in the Department of Philosophy, especially such as are interested in Psychical Research, Greek Philosophy, or problems on the borderland between Biology and Physics and Philosophy . . .":

Anonymous:

| | | |
|----------------------------------|---------|----------|
| Cash | \$15.00 | |
| Securities valued at | 500.00 | \$515.00 |
| <hr/> | | |
| Robert V. Cram | 25.00 | |
| Raphael Demos | 5.00 | |
| Griffith C. Evans | 100.00 | |
| Reinhold F. A. Hoernlé | 5.00 | |
| Charles R. Lanman | 5.00 | |
| E. Levis Prizer | 25.00 | |
| Mrs. John W. Riddle | 500.00 | |
| Leo Wiener | 5.00 | |
| James H. Woods | 25.00 | |
| Interest | 15.00 | 1,225.00 |
| <hr/> | | |

Edwin A. W. Harlow Fund:

Edwin A. W. Harlow, Estate of:

Additional 4.96

Albert F. Holden, Estate of:

On account of his bequest to Harvard College "for the use of the mineralogical department . . ." . . . 6,100.00

John E. Hudson Professorship:

Eunice W. Hudson (Mrs. John E. Hudson), Estate of:

In memory of her husband, John E. Hudson, of the Class of 1862, "for the establishment of a Professorship in Archaeology, or some subject thereof, to be known as the John E. Hudson Professorship."

145,733.50

Amount carried forward, . . . \$955,952.46

| | |
|-------------------------------|--------------|
| Amount brought forward, . . . | \$955,952.46 |
|-------------------------------|--------------|

College (*continued*):

"The Matchett Fund":

Sarah A. Matchett (Mrs. William F.
Matchett), Estate of:

| | |
|--|-----------|
| Additional, on account of her resid- uary bequest | 25,000.00 |
|--|-----------|

"Sachs Research Fellowship in Fine Arts":

Samuel Sachs:

| | |
|----------------------|----------|
| Additional | 2,000.00 |
|----------------------|----------|

Teachers' Endowment Fund:

| | |
|--------------------------------------|-------|
| From previous contributors | 53.33 |
|--------------------------------------|-------|

Unrestricted:

| | |
|--|--------|
| "Anonymous — balance of a special class fund — unrestricted." | 126.66 |
|--|--------|

"Jerome Wheelock Fund":

Jerome Wheelock, Estate of:

| | |
|---|-------|
| Additional, on account of his bequest of \$100,000 | 10.00 |
|---|-------|

Edward Wheelwright, Estate of:

| | |
|--|-----------|
| Additional, on account of his resid- uary bequest | 25,000.00 |
|--|-----------|

Dental School:

Endowment Fund:

| | | |
|--------------------------------|------------|-----------|
| Shepherd Brooks | \$5,000.00 | |
| Mrs. Robert D. Evans | 5,000.00 | |
| Lester H. Monks | 100.00 | 10,100.00 |
| | | |

Divinity School:

New Endowment Fund:

| | |
|-------------------------------|----------------|
| Gordon Abbott | 250.00 |
| Amount carried forward, . . . | \$1,018,492.45 |

Amount brought forward, . . .

\$1,018,492.45

Divinity School (continued):**Francis Greenwood Peabody Professorship of
Social Ethics and Pastoral Care:**

When the fund is complete, the in-
come may be used for the needs of
the School:

| | |
|--|----------|
| Mrs. Jere Abbott | \$200.00 |
| Anonymous | 100.00 |
| Anonymous | 100.00 |
| Anonymous | 150.00 |
| Anonymous | 1,000.00 |
| Anonymous | 1,000.00 |
| Anonymous | 1,000.00 |
| Anonymous | 1,000.00 |
| Shepherd Brooks | 500.00 |
| William W. Crapo | 100.00 |
| George T. Cruft | 250.00 |
| George W. Cutter | 50.00 |
| Miss Rose L. Dexter | 50.00 |
| Charles W. Eliot | 500.00 |
| William Endicott | 5,000.00 |
| Mrs. Robert D. Evans | 500.00 |
| Mrs. W. Scott Fitz | 1,000.00 |
| Paul Revere Frothingham | 100.00 |
| Mrs. Henry S. Grew | 500.00 |
| David Baines Griffiths | 2.00 |
| Mrs. Richard H. Harte | 500.00 |
| Frederick L. Hosmer | 100.00 |
| Charles A. Humphreys | 25.00 |
| Walter Hunnewell | 500.00 |
| George Hutchinson | 50.00 |
| Mrs. David P. Kimball | 500.00 |
| Miss Lucy Lowell | 100.00 |
| Herbert Lyman | 10.00 |
| Samuel P. Mandell and Mrs. Mandell | 100.00 |
| Miss Frances R. Morse | 500.00 |
| Grenville H. Norcross | 250.00 |
| Edmund Q. S. Osgood | 5.00 |
| John Parkinson | 1,000.00 |
| Mrs. John C. Phillips | 100.00 |
| Dudley L. Pickman | 500.00 |
| Miss Mary Pratt | 100.00 |
| Mrs. Jacob C. Rogers | 300.00 |
| Mrs. Edgar T. Scott | 100.00 |
| Horace S. Sears | 500.00 |

Amounts carried forward, . . . \$18,342.00 \$1,018,492.45

Amounts brought forward, . . \$18,342.00 \$1,018,492.45

Divinity School (*continued*):

Francis Greenwood Peabody Professorship of
Social Ethics and Pastoral Care (*continued*):

| | | |
|--------------------------------|----------|-----------|
| Henry S. Shaw | 100.00 | |
| Miss Alice P. Tapley | 500.00 | |
| C. Minot Weld | 200.00 | |
| Alfred T. White | 5,000.00 | |
| Arthur B. Whitney | 2.00 | |
| George Wigglesworth | 1,000.00 | |
| Interest | 208.67 | 25,352.67 |

Gray Herbarium:

Asa Gray Memorial Fund:

| | |
|-----------------------------|--------|
| Emile F. Williams | 100.00 |
|-----------------------------|--------|

Library:

William R. Castle Fund:

William R. Castle:

Additional:

| | |
|--------------------------------|--------|
| Securities valued at | 900.00 |
|--------------------------------|--------|

Peter Paul Francis Degrand, Estate of:

On account of his bequest, the income of which is to be "employed in French works and periodicals on the exact sciences and on Chemistry, Astronomy and other sciences applied to the Arts and to Navigation":

| | | |
|--------------------------------|-------------|-----------|
| Cash | \$70,500.00 | |
| Securities valued at | 4,500.00 | 75,000.00 |

Henry Weston Farnsworth Memorial:

William Farnsworth:

In memory of his son, Henry Weston Farnsworth, of the Class of 1912, the income to be used "First: For such

| | |
|-------------------------------|----------------|
| Amount carried forward, . . . | \$1,119,845.12 |
|-------------------------------|----------------|

Amount brought forward, . . . \$1,119,845.12

Library (continued):

Henry Weston Farnsworth Memorial (continued):

repairs and replacements as may be necessary to keep the 'Farnsworth Room,' its furniture and furnishings in constant good condition;
Second: For the care of the books and the purchase of new books;
Third: For any other expenses connected with the Room." 30,000.00

Frederic Hilborn Hall Fund:

Edwin H. Hall:

In memory of his son, Frederic Hilborn Hall, of the Class of 1910, the income to be used for the purchase of books for the College Library 5,000.00

James Jackson Lowell Fund:

Mrs. George Putnam:

In memory of her brother, James Jackson Lowell, of the Class of 1858, the income to be used for the purchase of books for the College Library 20,000.00

"B. Osgood Peirce Fund":

Mrs. B. Osgood Peirce:

In memory of her husband, B. Osgood Peirce, of the Class of 1876, the income to be used for the purchase of books on Mathematical Physics, for the College Library 1,000.00

Robert Gould Shaw Fund:

Robert Gould Shaw:

Additional 1,200.00

Amount carried forward, . . . \$1,177,045.12

Amount brought forward, . . . \$1,177,045.12

Medical School:

"Dr. Henry Isaiah Dorr Chair of Research and Teaching in Anaesthetics and Anaesthesia":

Henry Isaiah Dorr:

Subject to a life estate, after which the income is to be used "for the benefit of the medical and dental students of the College and suffering humanity . . .":

Securities valued at 70,000.00

Thomas Dwight Memorial Fund:

John D. Crimmins 100.00

George W. Gay Lecture Fund:

George W. Gay:

"the income, only, shall be expended, annually, for two or more lectures to the advanced, or graduating classes in the Medical School upon Medical Ethics, and upon wise and proper methods of conducting the business of physicians, as relates to fees, collections, investments, etc. . . ."

1,000.00

Silas Arnold Houghton Assistant Professorship in Bacteriology:

Anonymous:

"to found an Assistant Professorship of Bacteriology at the Harvard Medical School under the name of the Silas Arnold Houghton Professorship — in grateful memory of him as a physician and friend."

25,000.00

George C. Shattuck Professorship:

Frederick Cheever Shattuck:

His subscription to the Harvard Endowment Fund, with the special request that it be added to the principal of the George C. Shattuck Professorship:

Securities valued at 25,000.00

Amount carried forward, . . . \$1,298,145.12

Amount brought forward, . . . \$1,298,145.12

Medical School (*continued*):

Francis Skinner (Sr.), Estate of:

Additional, on account of his resid-
uary bequest 260.78

James C. White, Estate of:

His bequest "to the President and
Fellows of Harvard University . . .
the net income thereof as it accrues
to be used and expended for the
benefit of the Department of Derma-
tology . . . " 5,000.00

"Morrill Wyman Medical Research Fund":

Morrill Wyman, Estate of:

Additional, on account of his resid-
uary bequest:
Cash \$30,129.07
Securities valued at 373.00

30,502.07

Observatory:

"The Henry Draper Memorial Fund":

**Mary Anna Palmer Draper (Mrs. Henry
Draper), Estate of:**

On account of her bequest of
\$150,000, of which the income only
shall be used "for the purpose of
caring for, preserving, studying and
using the photographic plates of the
Henry Draper Memorial for the
purpose for which they may be used
and exhibited . . . " 15,000.00

**Peabody Museum of American Archaeology and
Ethnology:**

Frederic Ward Putnam Fund:

Frederic Ward Putnam, Estate of:

Additional 187.14
Amount carried forward, . . . \$1,349,095.11

| | |
|-------------------------------|-----------------------|
| Amount brought forward, . . . | \$1,349,095.11 |
|-------------------------------|-----------------------|

Phillips Brooks House:**"The Louise E. Bettens Fund — Phillips Brooks House Association":****Edward D. Bettens:**

| | |
|---|-----------------|
| The income "to be used in furthering the activities of the said Phillips Brooks House Association, but not for the maintenance of buildings, or the expenses now met by you (the President and Fellows), or the existing Phillips Brooks House Fund." | 2,500.00 |
|---|-----------------|

Phillips Brooks House Association Endowment Fund:**From sundry subscribers:**

| | | |
|---|-------------------|------------------|
| The income only "to be used for furthering the activities of said Association, and not for the maintenance of building or the expenses now met by the University, or the existing Phillips Brooks House Fund.": | | |
| Cash | \$9,793.75 | |
| Securities valued at | 67,273.75 | 77,067.50 |

University:**Anonymous Fund No. 4:**

| | |
|------------------------------------|-------------------|
| For an anonymous purpose | 200,000.00 |
|------------------------------------|-------------------|

"Fund of the Class of 1882":**Twenty-fifth Anniversary Fund:**

| | |
|----------------------|-----------------|
| Additional | 4,304.82 |
|----------------------|-----------------|

"Class of 1883 Fund":**Twenty-fifth Anniversary Fund:**

| | |
|----------------------|-----------------|
| Additional | 2,103.00 |
|----------------------|-----------------|

"The Class of 1890 Fund":**Twenty-fifth Anniversary Fund:**

| | |
|----------------------|-----------------|
| Additional | 3,500.00 |
|----------------------|-----------------|

| | |
|-------------------------------|-----------------------|
| Amount carried forward, . . . | \$1,638,570.43 |
|-------------------------------|-----------------------|

| | |
|-------------------------------|----------------|
| Amount brought forward, . . . | \$1,638,570.43 |
|-------------------------------|----------------|

University (continued):**Class of 1892 Fund:****Twenty-fifth Anniversary Fund:**

"with the loyal hope of the Class
that this gift may prove of service
to the University.":

| | |
|--------------------------------|------------|
| Securities valued at | 100,000.00 |
|--------------------------------|------------|

Class of 1894 Fund:

| | |
|---|-----------|
| Twenty-fifth Anniversary Fund | 13,700.00 |
|---|-----------|

Class of 1896 Fund:

| | |
|---|-----------|
| Twenty-fifth Anniversary Fund | 15,000.00 |
|---|-----------|

Class of 1899 Fund:

| | |
|---|-----------|
| Twenty-fifth Anniversary Fund | 25,000.00 |
|---|-----------|

Harvard Endowment Fund:**From sundry subscribers:**

| | |
|--|------------|
| <p style="padding-left: 40px;">"The income to be expended as the Corporation may decide"</p> | 200,000.00 |
|--|------------|

Morris Longstreth, Estate of:

| | |
|--|-----------|
| <p style="padding-left: 40px;">Additional, on account of his residu- ary bequest</p> | 15,064.04 |
|--|-----------|

Robert C. McIlwain, Estate of:

| | |
|------------------------|----------|
| Unrestricted | 4,750.00 |
|------------------------|----------|

"Gordon McKay Endowment":**Gordon McKay, Estate of:**

| | |
|--|------------|
| <p style="padding-left: 40px;">Additional, on account of his residu- ary bequest</p> | 193,582.11 |
|--|------------|

William S. Murphy, Estate of:

| | |
|---|-----------|
| <p style="padding-left: 40px;">"to be devoted to the establishment of one or more scholarships for the collegiate education of any young man or men named 'Murphy' who in the judgment of the faculty should prove deserving of this kind of encouragement . . ."</p> | 50,893.80 |
|---|-----------|

| | |
|-------------------------------|----------------|
| Amount carried forward, . . . | \$2,256,560.38 |
|-------------------------------|----------------|

| | |
|-------------------------------|----------------|
| Amount brought forward, . . . | \$2,256,560.38 |
|-------------------------------|----------------|

Museum of Comparative Zoölogy:

Louis Cabot Fund:

Mrs. John W. Bartol:

| | |
|--|----------|
| In memory of her father, Louis Cabot, of the Class of 1858, "the income of which is to be used for the purchase of books on Travel, Sport, and Natural History, for the Library of the Museum of Comparative Zoölogy . . . " | 5,000.00 |
|--|----------|

"Maria Whitney and James Lyman Whitney Fund":

James Lyman Whitney, Estate of:

| | |
|---|-------|
| Additional, on account of his residuary bequest | 51.41 |
|---|-------|

| | |
|------------------|---|
| Total, | <hr style="width: 100px; margin-left: auto; margin-right: 0;"/> \$2,261,611.79 |
|------------------|---|

EXHIBIT E

GIFTS FOR IMMEDIATE USE

For the year ended June 30, 1917

Appleton Chapel:

Appleton Chapel Choir:

Current expenses:

| | | |
|--------------------------|---------|---------|
| Denman W. Ross | \$25.00 | |
| John E. Wolff | 50.00 | \$75.00 |

Graduate School of Architecture:

To be added to the income of "The Departments of Architecture and Landscape Architecture Additions Fund":

| | |
|---------------------|-----------|
| Anonymous | 13,150.62 |
|---------------------|-----------|

For the purchase of the Bond collection of photographs, lantern-slides and manuscripts:

| | |
|---------------------|----------|
| Anonymous | 1,298.54 |
|---------------------|----------|

Arnold Arboretum:

To increase the income:

| | | |
|------------------------------------|------------|-------------|
| Gordon Abbott | \$100.00 | |
| Thomas Allen | 100.00 | |
| John S. Ames | 1,000.00 | |
| Oliver Ames | 100.00 | |
| Lars Anderson and Mrs. Anderson . | 200.00 | |
| Samuel Appleton | 100.00 | |
| Walter C. Baylies | 100.00 | |
| Mrs. James H. Beal | 100.00 | |
| C. Philip Beebe | 300.00 | |
| E. Pierson Beebe | 200.00 | |
| Frank B. Bemis | 100.00 | |
| William Sturgis Bigelow | 100.00 | |
| George Nixon Black | 100.00 | |
| Mrs. Wilmon W. Blackmar | 100.00 | |
| Mrs. Francis Blake | 100.00 | |
| Mrs. Edward D. Brandegee | 100.00 | |
| Peter C. Brooks | 200.00 | |
| Amounts carried forward, . . . | \$3,100.00 | \$14,524.16 |

Amounts brought forward, . . . \$3,100.00 \$14,524.16

Arnold Arboretum (*continued*):

To increase the income (*continued*):

| | |
|--|----------|
| Shepherd Brooks | 100.00 |
| Jacob F. Brown | 100.00 |
| Edward K. Butler | 100.00 |
| "E. S. C." | 25.00 |
| Miss Louise W. Case | 100.00 |
| Alexander Cochrane | 100.00 |
| Mrs. James M. Codman | 100.00 |
| William R. Coe | 100.00 |
| Miss Alice S. Coffin | 100.00 |
| Charles A. Coffin | 100.00 |
| T. Jefferson Coolidge | 100.00 |
| Frederick G. Crane | 100.00 |
| Richard T. Crane, Jr. | 100.00 |
| W. Murray Crane | 100.00 |
| Zenas Crane | 100.00 |
| Mrs. Stephen V. R. Crosby | 100.00 |
| Mrs. Charles H. Dalton | 100.00 |
| Ernest B. Dane and Mrs. Dane | 1,000.00 |
| Mrs. Arthur E. Davis | 100.00 |
| Mrs. Robert L. Day | 50.00 |
| William B. H. Dowse | 100.00 |
| George A. Draper | 100.00 |
| Mrs. Thomas J. Emery | 500.00 |
| William Endicott | 100.00 |
| Arthur F. Estabrook | 100.00 |
| Mrs. Robert D. Evans | 500.00 |
| Desmond FitzGerald | 100.00 |
| Mrs. James G. Freeman | 100.00 |
| Miss Cornelia A. French | 100.00 |
| Henry C. Frick and Mrs. Frick | 2,000.00 |
| William A. Gaston | 200.00 |
| Mrs. William A. Gaston | 100.00 |
| Theodore A. Havemeyer | 500.00 |
| Charles Hayden | 100.00 |
| Augustus Hemenway | 200.00 |
| Anton G. Hoenpfl | 250.00 |
| Henry Hornblower | 100.00 |
| Henry S. Howe | 100.00 |
| Henry S. Hunnewell and Mrs. Hunnewell | 500.00 |
| Walter Hunnewell | 100.00 |
| Charles L. Hutchinson | 200.00 |
| Mrs. Oscar Iasigi | 100.00 |

Amounts carried forward, . . . \$12,025.00 \$14,524.16

Amounts brought forward, . . . \$12,025.00 \$14,524.16

Arnold Arboretum (*continued*):

To increase the income (*continued*):

| | |
|--|----------|
| George G. Kennedy | 100.00 |
| Nathaniel T. Kidder | 100.00 |
| Mrs. David P. Kimball | 100.00 |
| Mrs. Gardiner M. Lane | 100.00 |
| Mrs. Amory A. Lawrence | 25.00 |
| George B. Leighton | 100.00 |
| John M. Longyear and Mrs. Longyear | 100.00 |
| Cyrus H. McCormick | 200.00 |
| Miss Fanny P. Mason | 100.00 |
| Massachusetts Society for Promoting Agriculture | 2,000.00 |
| George von L. Meyer | 100.00 |
| George H. Mifflin | 100.00 |
| Miss Susan Minns | 100.00 |
| Mrs. J. Pierpont Morgan, Jr. | 100.00 |
| Miss Lydia T. Morris | 100.00 |
| Mrs. John T. Morse | 100.00 |
| Frederick S. Moseley | 100.00 |
| Mrs. William G. Nickerson | 100.00 |
| Robert Osgood | 100.00 |
| John Parkinson | 100.00 |
| Frank E. Peabody | 100.00 |
| John E. Peabody | 100.00 |
| Charles L. Peirson | 100.00 |
| Mrs. John C. Phillips | 100.00 |
| Stephen W. Phillips and Mrs. Phillips | 100.00 |
| Dudley L. Pickman | 100.00 |
| Mrs. Dudley L. Pickman | 100.00 |
| Wallace L. Pierce | 100.00 |
| David Pingree | 500.00 |
| Mrs. Harold I. Pratt | 50.00 |
| Laban Pratt | 100.00 |
| William L. Richardson | 100.00 |
| Miss Marian Russell | 300.00 |
| Mrs. John L. Saltonstall | 350.00 |
| Charles S. Sargent and Mrs. Sargent | 250.00 |
| Charles S. Sargent, Jr. | 100.00 |
| Mrs. Lucius M. Sargent | 100.00 |
| Herbert M. Sears | 100.00 |
| Mrs. J. Montgomery Sears | 100.00 |
| Mrs. Knyvet W. Sears | 100.00 |
| Mrs. G. Howland Shaw | 50.00 |
| Charles A. Stone and Mrs. Stone | 200.00 |

Amounts carried forward, . . . \$19,150.00 \$14,524.16

Amounts brought forward, . . . \$19,150.00 \$14,524.16

Arnold Arboretum (*continued*):

To increase the income (*continued*):

| | | |
|--|----------|-----------|
| Galen L. Stone | 500.00 | |
| Nathaniel H. Stone | 100.00 | |
| Charles E. Stratton | 100.00 | |
| Charles H. Taylor | 100.00 | |
| Charles H. Tenney | 250.00 | |
| John E. Thayer | 500.00 | |
| Mrs. Nathaniel Thayer | 100.00 | |
| Robert E. Townsend | 10.00 | |
| Miss Emily Tuckerman | 25.00 | |
| Mrs. William E. Verplanck | 23.20 | |
| William Austin Wadsworth | 100.00 | |
| Charles C. Walker | 100.00 | |
| Mrs. W. Seward Webb | 100.00 | |
| Edwin S. Webster and Mrs. Webster | 200.00 | |
| Frank G. Webster and Mrs. Webster | 200.00 | |
| Laurence J. Webster and Mrs. Webster | 200.00 | |
| Mrs. Charles G. Weld | 100.00 | |
| C. Minot Weld | 100.00 | |
| Stephen M. Weld | 500.00 | |
| Stephen M. Weld and Mrs. Weld | 200.00 | |
| Mrs. William G. Weld | 100.00 | |
| Mrs. Henry C. Weston | 100.00 | |
| William P. Wharton | 100.00 | |
| Mrs. Stephen G. Wheatland | 100.00 | |
| George R. White | 1,000.00 | |
| William Whitman | 100.00 | |
| George Wigglesworth | 100.00 | |
| John D. Williams | 100.00 | |
| Robert Winsor | 100.00 | |
| | | <hr/> |
| | | 24,458.20 |

Korean Expedition:

| | | |
|--|----------|----------|
| John S. Ames | \$800.00 | |
| Richard T. Crane, Jr. | 1,000.00 | |
| R. and J. Farquhar and Company | 1,000.00 | |
| Mrs. J. Pierpont Morgan, Jr. | 1,000.00 | |
| J. C. Williams | 475.25 | |
| | | <hr/> |
| | | 4,275.25 |

Library of the Arnold Arboretum:

| | | |
|------------------------------------|-------|-------------|
| Mrs. J. Montgomery Sears | <hr/> | 1,000.00 |
| Amount carried forward, | | \$44,257.61 |

Amount brought forward, . . . \$44,257.61

Bermuda Biological Station for Research:

General purposes:

Alexander Forbes 100.00

Salaries:

| | | |
|------------------------------------|---------|--------|
| Miss Florence M. Cushing | \$75.00 | |
| Miss Ellen F. Mason | 50.00 | |
| Mrs. Henry Parkman | 25.00 | 150.00 |
| | <hr/> | |

Blue Hill Meteorological Observatory:

Salaries:

Mrs. A. Lawrence Rotch 4,500.00

Unrestricted:

| | | |
|-------------------------------|----------|----------|
| Augustus Hemenway | \$100.00 | |
| George Wigglesworth | 1,000.00 | 1,100.00 |
| | <hr/> | |

Botanic Garden:

Present use:

| | | |
|-------------------------------|----------|----------|
| Edwin F. Atkins | \$500.00 | |
| Ernest B. Dane | 5,000.00 | |
| Arthur F. Estabrook | 1,000.00 | 6,500.00 |
| | <hr/> | |

Botanical Museum:

Guatemala Expedition:

Walter Hunnewell 350.00

Present use:

| | | |
|----------------------------|------------|----------|
| Anonymous | \$1,500.00 | |
| Miss Susan Minns | 1,000.00 | 2,500.00 |
| | <hr/> | |

Graduate School of Business Administration:

Ninth year's expenses:

| | | |
|-------------------------------|----------|----------|
| Leon P. Alford | \$50.00 | |
| Abbot L. Mills | 2,000.00 | |
| Arch Wilkinson Shaw | 1,000.00 | 3,050.00 |
| | <hr/> | |

Amount carried forward, . . . \$62,507.61

Amount brought forward, . . .

\$82,507.61

Graduate School of Business Administration (*continued*):

Guaranteed Deficit Fund:

| | | |
|--------------------------------|----------|-----------|
| Anonymous | \$500.00 | |
| Walter C. Baylies | 3,000.00 | |
| William M. Bullivant | 200.00 | |
| Paul Butler | 100.00 | |
| James Richard Carter | 50.00 | |
| Henry W. Cook | 50.00 | |
| Carl P. Dennett | 100.00 | |
| Frederic C. Dumaine | 100.00 | |
| Edwin Farnham Greene | 100.00 | |
| Robert F. Herrick | 100.00 | |
| John S. Lawrence | 500.00 | |
| George D. Markham | 50.00 | |
| Herbert W. Mason | 100.00 | |
| Galen L. Stone | 3,000.00 | |
| James J. Storrow | 1,000.00 | |
| Theodore N. Vail | 3,000.00 | 11,950.00 |

General purposes:

| | | |
|------------------------------|---------|--------|
| Henry G. Bradlee | \$25.00 | |
| Joseph B. McCall | 50.00 | |
| Winfield L. Shaw | 75.00 | |
| Philip L. Spalding | 25.00 | 175.00 |

Library of the Graduate School of Business Administration:

| | | |
|---|----------|--------|
| William Endicott, for books on Transportation | \$100.00 | |
| Frederick L. Olmsted } for books on | | |
| John C. Olmsted } Accounting | 325.00 | |
| John R. Simpson | 75.00 | 500.00 |

Loan Fund:

| | | |
|--------------------------------|----------|--------|
| Walter H. Cottingham | \$100.00 | |
| Alonzo R. Weed | 25.00 | 125.00 |

Course in Printing:

| | | |
|------------------------------|--|--------|
| J. Pierpont Morgan | | 100.00 |
|------------------------------|--|--------|

Prizes:

| | | |
|-------------------------|--|--------|
| George O. May | | 150.00 |
|-------------------------|--|--------|

Amount carried forward, . . .

\$75,507.61

Amount brought forward, . . . \$75,507.61

Bussey Institution:

Plant Genetics:

Massachusetts Society for Promoting
Agriculture 500.00

Salaries:

Anonymous 600.00

Scholarships:

In memory of his mother, Anna C. Ames:
Oakes Ames 425.00

College:

Department of the Classics:

The Overseers' Committee to Visit
the Department of the Classics . . . 600.00

Department of Economics:

Research:

Anonymous donors \$1,450.00
Henry O. Underwood 100.00

1,550.00

Division of Education:

Library of the Division of Education:

A. Lincoln Filene 50.00

Research Fellowship:

John F. Moors 30.56

Department of English:

English A:

Francis Rawle \$10.00
Owen Wister 25.00

35.00

Division of The Fine Arts:

Prizes:

Henry S. Bowers 75.00

Amount carried forward, . . . \$79,373.17

| | |
|-------------------------------|--------------------|
| Amount brought forward, . . . | \$79,373.17 |
|-------------------------------|--------------------|

College (*continued*):Division of The Fine Arts (*continued*):

To increase the income of "The Louise
E. Bettens Fund":

| | |
|-----------------------------|----------|
| Edward D. Bettens | 1,200.00 |
|-----------------------------|----------|

Department of Geology:

For the purchase of a photo-micrographic
outfit:

| | | |
|----------------------------|---------|--------|
| Richard M. Field | \$11.20 | |
| Robert W. Sayles | 135.00 | 146.20 |

Special expenses:

| | |
|---------------------|-------|
| Anonymous | 10.00 |
|---------------------|-------|

Economic Geology:

| | | |
|-------------------------------|----------|----------|
| Rodolphe L. Agassiz | \$250.00 | |
| William H. Coolidge | 500.00 | |
| Hennen Jennings | 100.00 | |
| Sidney J. Jennings | 150.00 | |
| George B. Leighton | 250.00 | |
| Raphael Pumpelly | 250.00 | |
| Henry L. Smyth | 250.00 | |
| John E. Wolff | 250.00 | 2,000.00 |

Department of Government:

Municipal Government:

| | |
|--------------------------------|----------|
| Frank Graham Thomson | 5,000.00 |
|--------------------------------|----------|

Bureau of Municipal Research:

| | | |
|--------------------------------|------------|----------|
| Clarke Thomson | \$1,250.00 | |
| Frank Graham Thomson | 1,250.00 | 2,500.00 |

Research:

| | |
|----------------------------|----------|
| William Endicott | 1,000.00 |
|----------------------------|----------|

Department of History:

Harvard Commission on Western History:

| | | |
|----------------------------------|------------|----------|
| Andrew McFarland Davis | \$1,000.00 | |
| Mrs. William Hooper | 600.00 | 1,600.00 |

| | |
|-------------------------------|--------------------|
| Amount carried forward, . . . | \$92,829.37 |
|-------------------------------|--------------------|

| | |
|-------------------------------|-------------|
| Amount brought forward, . . . | \$92,829.37 |
|-------------------------------|-------------|

College (*continued*):

Division of Modern Languages:

Publications:

| | |
|-----------------------------|-------|
| Ernest F. Langley | 25.00 |
|-----------------------------|-------|

Department of Mineralogy and Petrography:

Present use:

| | | |
|----------------------------------|------------|----------|
| Anonymous | \$3,000.00 | |
| Albert C. Burrage | 200.00 | |
| Edward Mallinckrodt, Jr. | 500.00 | 3,700.00 |
| | | |

Mineralogical Museum:

| | |
|-------------------------|--------|
| John E. Wolff | 238.83 |
|-------------------------|--------|

Division of Music:

Present use:

| | | |
|--------------------------------|----------|--------|
| Anonymous | \$100.00 | |
| W. Kirkpatrick Brice | 125.00 | |
| John W. Frothingham | 100.00 | |
| Horatio A. Lamb | 100.00 | |
| Mrs. John Markoe | 25.00 | |
| Dave H. Morris | 75.00 | |
| Miss Anne Thomson | 100.00 | |
| Frank Graham Thomson | 100.00 | |
| Felix M. Warburg | 50.00 | |
| Paul M. Warburg | 50.00 | 825.00 |
| | | |

Division of Philosophy:

Library of the Division of Philosophy:

| | |
|-------------------------------|--------|
| Reginald C. Robbins | 200.00 |
|-------------------------------|--------|

Division of Physics:

To be added to the income of the Endowment Fund of the Jefferson Physical Laboratory:

| | |
|---------------------|----------|
| Anonymous | 5,500.00 |
|---------------------|----------|

Lectures:

| | |
|---------------------|--------|
| Anonymous | 100.00 |
| | |

| | |
|-------------------------------|--------------|
| Amount carried forward, . . . | \$103,418.20 |
|-------------------------------|--------------|

| | |
|-------------------------------|--------------|
| Amount brought forward, . . . | \$103,418.20 |
|-------------------------------|--------------|

College (*continued*):Division of Physics (*continued*):

Salaries:

| | | |
|-----------------------------------|----------|----------|
| George R. Agassiz | \$250.00 | |
| Rodolphe L. Agassiz | 250.00 | |
| Anonymous | 525.00 | |
| William Sturgis Bigelow | 250.00 | |
| Howard L. Blackwell | 250.00 | 1,525.00 |

Department of Social Ethics:

For the investigation of cottage-housing:

| | |
|---------------------------|--------|
| Alfred T. White | 500.00 |
|---------------------------|--------|

Fellowships:

South End House:

| | | |
|--|---------|--------|
| Archibald Cary Coolidge | \$10.00 | |
| Ginn and Company | 25.00 | |
| Augustus Hemenway, Jr. | 25.00 | |
| Robert Homans | 5.00 | |
| Francis Welles Hunnewell, 2d | 15.00 | |
| F. Lowell Kennedy | 5.00 | |
| South End House Association | 200.00 | |
| Charles Weil | 5.00 | |
| Alexander Whiteside | 10.00 | 300.00 |

Loan Fund:

| | |
|--|-------|
| The Society of Harvard Dames | 45.00 |
|--|-------|

Prizes:

Jeremy Belknap:

| | |
|------------------------------|-------|
| Philippe B. Marcou | 50.00 |
|------------------------------|-------|

"Harvard Menorah Society Prize":

| | |
|-----------------------------------|--------|
| Harvard Menorah Society | 200.00 |
|-----------------------------------|--------|

"Susan Anthony Potter Prizes":

| | |
|--------------------------------------|--------|
| Mrs. Murray Anthony Potter | 225.00 |
|--------------------------------------|--------|

Old Testament:

| | |
|---------------------|-------|
| Anonymous | 50.00 |
|---------------------|-------|

| | |
|-------------------------------|--------------|
| Amount carried forward, . . . | \$106,313.20 |
|-------------------------------|--------------|

Amount brought forward, . . . \$106,313.20

College (*continued*):

Salaries:

| | | |
|--|-------------|--------------|
| Francis R. Allen | \$200.00 | |
| Anonymous | 100.00 | |
| Anonymous | 4,000.00 | |
| Anonymous | 500.00 | |
| Mrs. S. Reed Anthony | 10.00 | |
| William Sturgis Bigelow | 200.00 | |
| Mrs. Job C. Bowron | 25.00 | |
| Miss Emma F. Cary | 100.00 | |
| J. Templeman Coolidge, Jr. | 200.00 | |
| Bronson M. Cutting | 300.00 | |
| Charles A. DeCourcy | 50.00 | |
| Mrs. Thomas Dwight | 10.00 | |
| Mrs. William C. Endicott, Jr. | 25.00 | |
| A. Lincoln Filene | 250.00 | |
| Edward A. Filene | 25.00 | |
| John F. Fitzgerald | 25.00 | |
| Alexander P. Gest | 10.00 | |
| " From a group of Harvard Gradu- ates and Friends of Philosophy " | 2,000.00 | |
| Rowland G. Hazard | 10.00 | |
| Joseph M. Herman | 100.00 | |
| Godfrey M. Hyams | 1,000.00 | |
| Miss Eulalie M. Isagi | 15.00 | |
| Charles C. Jackson | 100.00 | |
| Joseph P. Kennedy | 10.00 | |
| Miss Margaret Kerby | 50.00 | |
| Louis E. Kirstein | 50.00 | |
| Abraham Koshland | 50.00 | |
| Irving Lehman | 450.00 | |
| George B. Leighton | 50.00 | |
| Jesse A. Locke | 25.00 | |
| Constantine E. McGuire | 25.00 | |
| George D. Markham | 50.00 | |
| Arthur N. Milliken | 100.00 | |
| Mrs. Charles S. Minot | 25.00 | |
| John T. Morse, Jr. | 300.00 | |
| Thomas A. Mullen | 100.00 | |
| Miss Annie G. Peck | 25.00 | |
| Richard A. F. Penrose, Jr. | 250.00 | |
| Edgar Pierce | 100.00 | |
| Mrs. Geraldyn Redmond | 500.00 | |
| Roland L. Redmond | 50.00 | |
| Mrs. John W. Riddle | 2,000.00 | |
| Amount carried forward, . . . | \$13,465.00 | \$106,313.20 |

Amounts brought forward, . . . \$13,465.00 \$106,313.20

College (*continued*):

Salaries (*continued*):

| | | |
|---------------------------------|----------|-----------|
| Al A. Rosenbush | 50.00 | |
| Lawrence E. Sexton | 100.00 | |
| Mrs. Quincy A. Shaw | 1,000.00 | |
| P. Tecumseh Sherman | 25.00 | |
| Philip Stockton | 25.00 | |
| Edward C. Streeter | 1,000.00 | |
| R. Clipston Sturgis | 200.00 | |
| Felix M. Warburg | 800.00 | |
| Frederick Adams Woods | 100.00 | |
| Interest | 17.55 | 16,782.55 |

Scholarships:

Anonymous 150.00

"Class of 1890 Scholarship for Sons of
Members" 300.00

Class of 1919 400.00

Ricardo Prize Scholarship:

Anonymous 350.00

Charles Sumner:

Charles Sumner Bird 200.00

Harvard Clubs Scholarships:

| | |
|-----------------------|----------|
| Associated | 1,420.00 |
| Boston | 1,000.00 |
| Buffalo | 200.00 |
| Chicago | 1,050.00 |
| Cincinnati | 500.00 |
| Cleveland | 900.00 |
| Fall River | 281.25 |
| Fitchburg | 100.00 |
| Hawaii | 200.00 |
| Long Island | 550.00 |
| Lowell | 190.00 |
| Lynn | 100.00 |
| Maryland | 250.00 |
| Michigan | 125.00 |
| Milton | 500.00 |
| Minnesota | 300.00 |

Amount carried forward, . . . \$132,162.00

Amount brought forward, . . . \$132,162.00

College (*continued*):Scholarships (*continued*):Harvard Clubs Scholarships (*continued*):

| | | |
|----------------------------------|--------|--|
| Newburyport | 100.00 | |
| New England Federation | 200.00 | |
| New Jersey | 250.00 | |
| Eastern New York | 150.00 | |
| Western Pennsylvania | 700.00 | |
| Philadelphia | 65.00 | |
| Rochester | 200.00 | |
| Rocky Mountain | 250.00 | |
| St. Louis | 300.00 | |
| San Francisco | 500.00 | |
| Santa Barbara | 300.00 | |
| Seattle | 150.00 | |
| Syracuse | 150.00 | |
| Washington, D. C. | 300.00 | |
| Worcester | 400.00 | |

For binding periodicals and monographs presented by the College to the Southwark Public Library, London:

| | | |
|----------------------------------|---------|--------|
| Ezra H. Baker | \$25.00 | |
| George C. Beals | 25.00 | |
| Henry W. Cunningham | 25.00 | |
| Andrew McFarland Davis | 25.00 | |
| George Lyman Kittredge | 25.00 | |
| George V. Leverett | 25.00 | |
| Edward P. Merritt | 25.00 | |
| Harold Murdock | 25.00 | |
| Grenville H. Norcross | 25.00 | 225.00 |

To meet the cost of alterations necessary to give University Hall an entrance on the Sever Quadrangle:

| | |
|--|----------|
| Class of 1887, in commemoration of the thirtieth anniversary of its graduation | 5,000.00 |
|--|----------|

College Yard:

Tree Fund:

| | | |
|-------------------------------------|----------|--------------|
| Edward B. Adams | \$250.00 | |
| Arthur H. Lea | 1,475.91 | |
| Mrs. Fred Norris Robinson | 320.97 | 2,046.88 |
| Amount carried forward, | | \$143,448.88 |

Amount brought forward, . . . \$143,448.88

College (*continued*):

To be added to the income of the Teachers'
Endowment Fund:

Edwin H. Abbot 400.00

Undergraduate instruction:

Henry L. Shattuck 50.00

Dental School:

Current expenses:

| | |
|----------------------------------|---------------|
| George H. Ames | \$10.00 |
| Charles A. Brackett | 10.00 |
| Walter A. Bradford | 10.00 |
| Charles P. Briggs | 10.00 |
| Edward C. Briggs | 30.00 |
| Harold W. Clarke } | 10.00 |
| Ralph P. Cunningham } | |
| Benjamin H. Codman | 10.00 |
| William P. Cooke | 10.00 |
| Sebert E. Davenport, Jr. | 10.00 |
| Forrest G. Eddy | 10.00 |
| J. Austin Furfey | 10.00 |
| Harry L. Grant | 10.00 |
| Amos I. Hadley | 10.00 |
| C. Wesley Hale | 10.00 |
| Julius F. Hovestadt | 10.00 |
| Charles A. Jameson | 10.00 |
| Charles M. Keep | 10.00 |
| Arthur A. Libby | 10.00 |
| Charles F. MacDonald | 10.00 |
| Robert T. Moffatt | 10.00 |
| J. William O'Connell | 10.00 |
| Arthur J. Oldham | 10.00 |
| Frank Perrin | 10.00 |
| Ubert C. Russell | 10.00 |
| Luther D. Shepard | 10.00 |
| Harry B. Shuman | 10.00 |
| Henry C. Spencer | 10.00 |
| William D. Squarebrigs | 10.00 |
| Kurt H. Thoma | 10.00 |
| Clarence B. Vaughan | 10.00 |
| George H. Wright | 10.00 |
| | <u>330.00</u> |

Amount carried forward, . . . \$144,228.88

Amount brought forward, . . . \$144,228.88

Divinity School:

Library of the Divinity School:

Society for Promoting Theological
Education 4,648.20

Publications:

James R. Jewett 25.00

Salaries:

Horace S. Sears 1,000.00

Schools of Engineering and Mining:

Henry Weidemann Locke Scholarship:

Anonymous 100.00

The William Hayes Fogg Art Museum:

For the purchase of cases to hold objects be-
queathed to the Museum by Edward P. Bliss:

Henry W. Bliss 568.21

**To be added to the income of the William
Hayes Fogg Fund:**

| | | |
|--------------------------------------|----------|----------|
| Anonymous | \$100.00 | |
| Anonymous | 100.00 | |
| Henry S. Bowers | 100.00 | |
| Horatio G. Curtis | 100.00 | |
| Julius Goldman | 1,000.00 | |
| Frank Gair Macomber | 100.00 | |
| Arthur Sachs | 200.00 | |
| Barney Sachs | 75.00 | |
| Harry Sachs | 500.00 | |
| Mrs. Samuel Sachs | 1,000.00 | |
| Felix M. Warburg | 1,000.00 | |
| Mrs. Kenneth G. T. Webster | 50.00 | 4,325.00 |

For the purchase of a water-color, by John
Singer Sargent:

| | | |
|--------------------------------|----------|--------------|
| Anonymous | \$100.00 | |
| Anonymous | 100.00 | |
| Amounts carried forward, . . . | \$200.00 | \$154,895.29 |

| | | |
|--------------------------------|----------|--------------|
| Amounts brought forward, . . . | \$200.00 | \$154,895.29 |
|--------------------------------|----------|--------------|

The William Hayes Fogg Art Museum (*continued*):

For the purchase of a water-color, by John
Singer Sargent (*continued*):

| | | |
|---|--------|----------|
| Mrs. Edward D. Brandegee | 100.00 | |
| Mrs. T. Jefferson Coolidge, Jr. | 50.00 | |
| Miss Grace Edwards | 100.00 | |
| Alexander Forbes | 100.00 | |
| Henry S. Forbes | 100.00 | |
| Mrs. William H. Forbes | 100.00 | |
| Robert Treat Paine, 2d. | 50.00 | |
| Charles C. Walker | 100.00 | |
| Mrs. Kenneth G. T. Webster | 100.00 | 1,000.00 |

" Gift of Mrs. Samuel Sachs ":

| | |
|-----------------------------|----------|
| Mrs. Samuel Sachs | 2,500.00 |
|-----------------------------|----------|

" The Society of Friends of the Fogg Art
Museum " :

7,110.00

Copley Amory
Mrs. John Copley Amory
Anonymous
William Sumner Appleton
Mrs. Harrison O. Apthorp
Mrs. John W. Bartol
Boylston A. Beal
Gordon Knox Bell
Bernhard Berenson
George Blumenthal
Henry S. Bowers
W. Franklin Brush
Miss Ellen T. Bullard
Miss Katherine E. Bullard
Heman Merrick Burr
Winthrop Burr
Philip Cabot
Arthur A. Carey
Charles T. Carruth
Waddill Catchings
Percy H. Clark
Miss Eleanor Clarke
Harold J. Coolidge
J. Randolph Coolidge, Jr.

Amount carried forward, . . .

\$165,505.29

Amount brought forward, . . .

\$165,505.29

The William Hayes Fogg Art Museum (*continued*):**"The Society of Friends of the Fogg Art Museum" (*continued*):**

Miss Hester Cunningham
 Horatio G. Curtis
 Harold W. Dana
 Edwin S. Dodge
 Mrs. Ludwig Dreyfuss
 Charles B. Eddy
 Richard Ederheimer
 Corbin Edgell
 Harold L. Ehrich
 Walter L. Ehrich
 William Emerson and Mrs. Emerson
 Martin Erdmann
 Albert R. Erskine
 Miss Louise Fitz
 Edward W. Forbes
 Mrs. Waldo E. Forbes
 Charles L. Freer
 Lee M. Friedman
 G. Peabody Gardner, Jr.
 Henry Goldman
 Julius Goldman
 Charles C. Goodrich
 Arthur F. Gotthold
 Morris Gray, Jr.
 Thomas S. Hathaway
 Joseph C. Hoppin
 Alfred Johnson
 François Kleinberger
 Thomas W. Lamont
 Pierre de Chaignon La Rose
 Arthur Lehman
 Herbert H. Lehman
 Philip Lehman
 Robert Lehman
 George B. Leighton
 Mrs. Louis Levisseur
 Charles J. Liebmann
 Philip M. Lydig
 James E. MacCloskey, Jr.
 George H. Mifflin, Jr.
 Edwin V. Morgan
 J. Pierpont Morgan

Amount carried forward, . . .

\$165,505.29

Amount brought forward, . . .

\$165,505.29**The William Hayes Fogg Art Museum (*continued*)****"The Society of Friends of the Fogg Art Museum" (*continued*):**

John Lord O'Brian
 Bradley W. Palmer
 Potter Palmer, Jr.
 John C. Phillips
 Gustav Pollak
 A. Kingsley Porter
 Joseph M. Proskauer
 Eben Richards
 Mrs. John W. Riddle
 Julius Rosenwald
 Martin A. Ryerson
 Arthur Sachs
 Barney Sachs
 Miss Ella Sachs
 Harry Sachs
 Paul J. Sachs
 Walter E. Sachs
 Jacob H. Schiff
 Mortimer L. Schiff
 Albert W. Scholle
 Donald Scott
 Lawrence E. Sexton
 Frederick Cheever Shattuck
 Thomas W. Slocum
 Frank Bulkeley Smith
 Sydney B. Snow
 Eliot Spalding
 Emil M. Sperling
 James A. Stillman
 Nathaniel H. Stone
 Herbert N. Straus
 John H. Sturgis
 Horace M. Swope
 Fritz B. Talbot
 J. Collins Warren
 Frederic C. Weld
 Hervey E. Wetzel
 Richard Wheatland
 Alexander M. White
 James Platt White
 Grenville L. Winthrop
 Clement B. Wood

Amount carried forward, . . .

\$165,505.29

Amount brought forward, . . . \$165,505.29

Freshman Halls Fund:

George Higginson, Jr. 150.00

Gray Herbarium:**Present use:**

| | | |
|-------------------------------------|----------|--------------|
| Rodolphe L. Agassiz | \$10.00 | |
| Mrs James Barr Ames | 10.00 | |
| Anonymous | 25.00 | |
| Anonymous | 25.00 | |
| Edwin F. Atkins | 10.00 | |
| Walter C. Baylies | 10.00 | |
| Thomas P. Beal | 10.00 | |
| William Sturgis Bigelow | 35.00 | |
| Mrs. Arthur W. Blake | 10.00 | |
| Mrs. Francis Blake | 5.00 | |
| Miss Sarah F. Bremer | 10.00 | |
| Edward M. Brewer | 15.00 | |
| William Brewster | 10.00 | |
| Allston Burr | 10.00 | |
| Miss Louise H. Coburn | 10.00 | |
| Mrs. James M. Codman | 10.00 | |
| Mrs. Charles A. Cummings | 10.00 | |
| Mrs. Frank A. Day | 10.00 | |
| Walter Deane | 10.00 | |
| William Endicott | 10.00 | |
| Arthur F. Estabrook | 100.00 | |
| Dudley B. Fay | 10.00 | |
| Mrs. W. Scott Fitz | 10.00 | |
| Mrs. William H. Forbes | 5.00 | |
| Mrs. Francis C. Foster | 10.00 | |
| Miss Harriet E. Freeman | 10.00 | |
| Miss Cornelia A. French | 10.00 | |
| Mrs. Louis A. Frothingham | 10.00 | |
| Robert H. Gardiner | 10.00 | |
| George A. Goddard | 10.00 | |
| Miss Emily Gray | 10.00 | |
| Miss Harriet Gray | 10.00 | |
| Mrs. Henry S. Grew | 10.00 | |
| Mrs. Augustus Hemenway | 10.00 | |
| Miss Clara Hemenway | 10.00 | |
| Joseph P. B. Henshaw | 10.00 | |
| Henry Hornblower | 10.00 | |
| Miss Katharine Horsford | 10.00 | |
| Clement S. Houghton | 20.00 | |
| Amounts carried forward, . . . | \$540.00 | \$165,655.29 |

| | | |
|------------------------------|----------|--------------|
| Amounts brought forward, . . | \$540.00 | \$165,655.29 |
|------------------------------|----------|--------------|

Gray Herbarium (*continued*):Present use (*continued*):

| | |
|------------------------------------|--------|
| Miss Elizabeth G. Houghton | 10.00 |
| Henry S. Howe | 10.00 |
| Charles W. Hubbard | 10.00 |
| Henry S. Hunnewell | 25.00 |
| Walter Hunnewell | 10.00 |
| Miss Anna P. Jackson | 10.00 |
| Edward C. Johnson | 10.00 |
| F. Lowell Kennedy | 5.00 |
| George G. Kennedy | 100.00 |
| Charles A. Kidder | 10.00 |
| Nathaniel T. Kidder | 25.00 |
| David P. Kimball | 25.00 |
| Mrs. David P. Kimball | 25.00 |
| Miss Lulu S. Kimball | 10.00 |
| Mrs. Harriet M. Laughlin | 10.00 |
| Joseph R. Leeson | 100.00 |
| George V. Leverett | 25.00 |
| Mrs. George Linder | 10.00 |
| Mrs. Augustus P. Loring | 10.00 |
| Miss Katharine P. Loring | 10.00 |
| Miss Louisa P. Loring | 10.00 |
| Mrs. Thornton K. Lothrop | 10.00 |
| Miss Ellen F. Mason | 10.00 |
| Miss Fanny P. Mason | 10.00 |
| Miss Susan Minns | 10.00 |
| Grenville H. Norcross | 10.00 |
| Mrs. Otis Norcross, Jr. | 10.00 |
| James L. Paine | 20.00 |
| Mrs. John C. Phillips | 10.00 |
| Mrs. Dudley L. Pickman | 10.00 |
| David Pingree | 20.00 |
| Laban Pratt | 10.00 |
| Miss Elizabeth C. Putnam | 5.00 |
| Mrs. George Putnam | 15.00 |
| George E. Richards | 10.00 |
| William L. Richardson | 25.00 |
| Denman W. Ross | 10.00 |
| Mrs. M. Denman Ross | 10.00 |
| Mrs. Waldo O. Ross | 10.00 |
| Mrs. Robert S. Russell | 50.00 |
| Mrs. J. Montgomery Sears | 10.00 |
| Mrs. Knyvet W. Sears | 25.00 |
| Mrs. G. Howland Shaw | 10.00 |
| David N. Skillings | 10.00 |

| | | |
|--------------------------------|------------|--------------|
| Amounts carried forward, . . . | \$1,320.00 | \$165,655.29 |
|--------------------------------|------------|--------------|

Amounts brought forward, . . \$1,320.00 \$165,655.29

Gray Herbarium (*continued*):Present use (*continued*):

| | | |
|-----------------------------------|--------|----------|
| Francis P. Sprague | 10.00 | |
| Isaac Sprague | 10.00 | |
| Nathaniel H. Stone | 10.00 | |
| John E. Thayer | 100.00 | |
| Charles C. Walker | 10.00 | |
| Miss Caroline E. Ward | 10.00 | |
| Miss Cornelia Warren | 10.00 | |
| Benjamin M. Watson | 10.00 | |
| Frank G. Webster | 25.00 | |
| Mrs. Frank G. Webster | 25.00 | |
| Stephen M. Weld | 10.00 | |
| Mrs. William G. Weld | 20.00 | |
| Miss Adelia C. Williams | 25.00 | |
| John D. Williams | 20.00 | |
| Miss Mary Woodman | 10.00 | 1,625.00 |

Law School:

" M. J. and Jennie Mack Loan Fund ":

Julian W. Mack 1,000.00

Research Scholarships:

| | | |
|------------------------|----------|--------|
| Anonymous | \$125.00 | |
| Anonymous | 250.00 | |
| Roscoe Pound | 125.00 | 500.00 |

Library:

Purchase of books for the College Library:

| | | |
|---|---|--------------|
| Anonymous, for rare books | \$1,000.00 | |
| Anonymous, for Arabic books and books on the history of the Mo- hammedans | 300.00 | |
| James Byrne | for the pur- chases during a special trip to Great Britain and Ireland | 3,000.00 |
| J. Pierpont Morgan | | |
| Archibald Cary Coolidge, the sale of a copy of the Hohenzollern book- plate | 10.00 | |
| Amounts carried forward, | \$4,310.00 | \$168,780.29 |

Amounts brought forward, . . \$4,310.00 \$168,780.29

Library (*continued*):

Purchase of books for the College Library:

(*continued*):

| | | |
|--|----------|----------|
| John Craig, for books on the history of the English drama | 250.00 | |
| Dante Society, for the maintenance of the Dante Collection | 100.00 | |
| Arthur L. Dunham, for duplicate copies of books used in Economics 2a or 2b | 10.00 | |
| William Endicott | 2,500.00 | |
| Ernest L. Gay, Estate of | 36.94 | |
| George A. Gordon { for books on | 135.00 | |
| Joseph Lee { Philosophy | | |
| Reginald C. Robbins { | | |
| Mrs. Luther S. Livingston, for books of bibliographical interest, and other subjects | 421.43 | |
| James Loeb, for Labor periodicals | 100.00 | |
| Walter W. Naumburg, for books on Shakspeare | 400.00 | |
| Sundry gifts | 20.85 | 8,284.22 |

Farnsworth Room:

| | | |
|---|----------|----------|
| Anonymous, for services | 300.00 | |
| William Farnsworth, for the purchase of books | 5,000.00 | |
| William Farnsworth, for the purchase of a globe and atlas | 250.00 | |
| Mrs. James F. Hunnewell, for binding books | 195.00 | 5,745.00 |

Charles Elliott Perkins Memorial:

| | |
|-------------------------------|----------|
| Mrs. William Hooper | 1,000.00 |
|-------------------------------|----------|

Binding books:

| | |
|---------------------------|-------|
| Joseph H. Clark | 13.00 |
|---------------------------|-------|

Medical School:

Department of Anatomy:

| | |
|---|--------------|
| John L. Bremer | 1,500.00 |
| From the Trustees of the Warren Museum Fund | 155.33 |
| Amount carried forward, | \$185,477.84 |

| | |
|-------------------------------|--------------|
| Amount brought forward, . . . | \$185,477.84 |
|-------------------------------|--------------|

Medical School (*continued*):**Department of Bacteriology:**

| | |
|-------------------------------|----------|
| " Gift of A. B. C." | 1,300.00 |
| " H. S. F." | 360.00 |

Department of Pathology:

| | |
|---|--------|
| The Rockefeller Institute for Medical Research | 187.50 |
|---|--------|

Department of Comparative Pathology:

For special investigations on milk infections:

| | |
|-------------------------|----------|
| Timothy Paige | 1,000.00 |
|-------------------------|----------|

Department of Neuropathology:

| | |
|-------------------------------------|--------|
| Miss Katherine E. Bullard | 500.00 |
|-------------------------------------|--------|

Department of Pharmacology:

| | |
|----------------------------|----------|
| William Endicott | 5,000.00 |
|----------------------------|----------|

Department of Preventive Medicine and Hygiene:

| | |
|--|----------|
| Henry L. Higginson | 6,000.00 |
| National Canners Association | 5,000.00 |

Department of Surgery:**Surgical Laboratory:**

| | |
|------------------------|----------|
| John S. Ames | 1,000.00 |
|------------------------|----------|

Surgical Library Book Fund:

| | |
|-----------------------------------|--------|
| William Sturgis Bigelow | 100.00 |
|-----------------------------------|--------|

Department of Tropical Medicine:

| | |
|-----------------------------------|----------|
| Mrs. George R. Agassiz | \$500.00 |
| Clarence W. Barron | 250.00 |
| Mrs. Clarence W. Barron | 250.00 |
| William Sturgis Bigelow | 500.00 |
| Charles P. Bowditch | 250.00 |

| | | |
|--------------------------------|------------|--------------|
| Amounts carried forward, . . . | \$1,750.00 | \$205,925.34 |
|--------------------------------|------------|--------------|

Amounts brought forward, . . . \$1,750.00 \$205,925.34

Medical School (*continued*):

Department of Tropical Medicine (*continued*):

| | | |
|--|----------|-----------|
| Alexander Cochrane | 500.00 | |
| Allen Curtis | 100.00 | |
| Carroll Dunham and Mrs. Dunham | 100.00 | |
| Ralph E. Forbes | 100.00 | |
| W. Cameron Forbes | 1,000.00 | |
| Mrs. Louis A. Frothingham | 200.00 | |
| Henry S. Howe | 400.00 | |
| Godfrey M. Hyams | 500.00 | |
| Elliot C. Lee | 6,000.00 | |
| Miss Frances R. Morse | 100.00 | |
| Wallace L. Pierce | 2,000.00 | |
| Galen L. Stone | 400.00 | |
| George R. White | 500.00 | |
| Moses Williams | 50.00 | 13,700.00 |

Frederic Shurtleff Coolidge, '87, Fund:

For aid for students in the Medical School:

Mrs. Frederic Shurtleff Coolidge 500.00

Flag-staff on Building "A":

Teaching staff of the Medical School 257.50

Library of the Medical School:

Alpha Omega Alpha Society 8.00

Salaries:

Harvard Medical Alumni Association 3,000.00

Scholarships:

"The James Ewing Mears, M.D. Scholarship in Medicine":

J. Ewing Mears 225.00

Unrestricted:

The Aesculapian Club 200.00

Amount carried forward, \$223,815.84

Amount brought forward, . . . \$223,815.84

Medical School (*continued*):

The Cancer Commission of Harvard University:

New Laboratory Fund:

| | | |
|----------------------------|------------|-----------|
| Anonymous | \$5,000.00 | |
| Redfield Proctor | 5,000.00 | 10,000.00 |
| | <hr/> | |

For the purchase of radium:

| | | |
|-------------------------------------|-------------|-----------|
| Anonymous | \$45,000.00 | |
| Miss Emily Dutton Proctor | 500.00 | 45,500.00 |
| | <hr/> | |

Salaries: .

| | | |
|---------------------|--|----------|
| Anonymous | | 1,000.00 |
|---------------------|--|----------|

Collis P. Huntington Memorial Hospital:

Current expenses:

| | | |
|-------------------------------------|----------|--|
| George R. Agassiz | \$250.00 | |
| Miss Martha A. Alford | 100.00 | |
| F. Lothrop Ames | 100.00 | |
| Anonymous | 1,000.00 | |
| Anonymous | 25.00 | |
| Anonymous | 50.00 | |
| Nelson S. Bartlett | 25.00 | |
| Mrs. Walter C. Baylies | 200.00 | |
| William Sturgis Bigelow | 100.00 | |
| Mrs. Wilmon W. Blackmar | 25.00 | |
| Mrs. Arthur W. Blake | 20.00 | |
| Mrs. Francis Blake | 20.00 | |
| Mrs. Edward D. Brandegee | 100.00 | |
| Miss Sarah F. Bremer | 50.00 | |
| Miss Fannie R. Brewer | 25.00 | |
| Miss Katherine E. Bullard | 50.00 | |
| Mrs. John A. Burnham | 10.00 | |
| I. Tucker Burr | 25.00 | |
| "E. S. C." | 100.00 | |
| Mrs. Arthur Tracy Cabot | 50.00 | |
| Godfrey L. Cabot | 100.00 | |
| Arthur A. Carey | 5.00 | |
| Miss Emma F. Cary | 25.00 | |
| Miss Georgina S. Cary | 25.00 | |
| Mrs. Theodore Chase | 25.00 | |
| | <hr/> | |

Amounts carried forward, . . . \$2,505.00 \$280,315.84

Amounts brought forward, . . \$2,505.00 \$280,315.84

Medical School (*continued*):

Collis P. Huntington Memorial Hospital (*continued*):

Current expenses (*continued*):

| | |
|---|----------|
| Herbert L. Clark | 50.00 |
| Mrs. Costello C. Converse | 200.00 |
| Charles E. Cotting | 100.00 |
| W. Murray Crane | 200.00 |
| Mrs. Francis B. Crowinshield | 10.00 |
| John S. Curtis | 50.00 |
| Philip Y. DeNormandie | 25.00 |
| John W. Farlow | 25.00 |
| Frederick P. Fish | 50.00 |
| Henry C. Frick | 250.00 |
| Mrs. Louis A. Frothingham | 200.00 |
| Miss Harriet Gray | 25.00 |
| Robert B. Greenough | 10.00 |
| Mrs. Henry S. Grew | 50.00 |
| Miss Ellen R. Hathaway | 100.00 |
| Horatio Hathaway, Jr. | 10.00 |
| Mrs. Malcolm G. Haughton | 100.00 |
| Augustus Hemenway | 100.00 |
| The Misses Holt | 50.00 |
| William Hooper | 50.00 |
| Miss Elizabeth G. Houghton | 25.00 |
| Mrs. Charles W. Hubbard | 50.00 |
| Humane Society of the Commonwealth of Massachusetts | 1,000.00 |
| Henry S. Hunnewell | 100.00 |
| Walter Hunnewell | 100.00 |
| Mrs. Henry E. Huntington | 2,000.00 |
| Henry Jackson | 20.00 |
| George Abbot James | 20.00 |
| Edward C. Johnson | 20.00 |
| A. Paul Keith | 25.00 |
| Ellis Kellert | 5.00 |
| David P. Kimball | 50.00 |
| The Misses Kimball | 25.00 |
| Mrs. Henry P. King | 200.00 |
| Thomas W. Lamont | 250.00 |
| Mrs. Gardiner M. Lane | 50.00 |
| Lawrence Model Lodging Houses | 500.00 |
| George V. Leverett | 100.00 |
| Augustus P. Loring and Mrs. Loring | 50.00 |

Amounts carried forward, . . . \$8,750.00 \$280,315.84

Amounts brought forward, . . \$8,750.00 \$280,315.84

Medical School (*continued*):

Collis P. Huntington Memorial Hospital (*continued*):

Current expenses (*continued*):

| | |
|--|----------|
| Mrs. William Caleb Loring | 10.00 |
| Edward Mallinckrodt, Jr. | 100.00 |
| Mrs. Charles E. Mason | 100.00 |
| Miss Ida M. Mason | 50.00 |
| J. Ewing Mears | 25.00 |
| Mrs. Daniel Merriman | 25.00 |
| The Misses Morrill | 75.00 |
| William H. O'Connell | 20.00 |
| Henry J. O'Hara | 5.00 |
| Mrs. Robert Treat Paine, 2d. | 25.00 |
| William A. Paine | 200.00 |
| Miss Eleanor S. Parker | 25.00 |
| John Parkinson | 50.00 |
| George A. Peabody | 500.00 |
| Wallace L. Pierce | 100.00 |
| David Pingree | 200.00 |
| Mrs. Alexander S. Porter, Jr. | 25.00 |
| Miss Emma Rodman | 25.00 |
| Miss Annette P. Rogers | 15.00 |
| Mrs. Jacob C. Rogers | 100.00 |
| William L. Richardson | 100.00 |
| Mrs. Robert S. Russell | 25.00 |
| John L. Saltonstall | 100.00 |
| Mrs. Francis W. Sargent | 25.00 |
| Mrs. J. Montgomery Sears | 100.00 |
| Mrs. Knyvet W. Sears | 100.00 |
| Mrs. Quincy A. Shaw | 100.00 |
| Francis P. Sprague | 100.00 |
| Mrs. Seth E. Sprague | 10.00 |
| Mrs. Robert H. Stevenson | 25.00 |
| Nathaniel H. Stone | 100.00 |
| Miss Abby M. Storer | 25.00 |
| Miss Mary G. Storer | 25.00 |
| Robert W. Storer | 25.00 |
| Miss Alice P. Tapley | 100.00 |
| Mrs. Ezra R. Thayer | 15.00 |
| John E. Thayer | 250.00 |
| Mrs. Nathaniel Thayer | 25.00 |
| Mrs. Washington B. Thomas | 10.00 |
| "The Eugene Tompkins Memorial" | 1,000.00 |

Amounts carried forward, . . . \$12,685.00 \$280,315.84

Amounts brought forward . . \$12,685.00 \$280,315.84

Medical School (*continued*):

Collis P. Huntington Memorial Hospital (*continued*):

Current expenses (*continued*):

| | | |
|--|--------|-----------|
| Charles H. Traiser | 25.00 | |
| Henry O. Underwood | 100.00 | |
| Mrs Alexander F. Wadsworth | 25.00 | |
| William B. Walker and Mrs. Walker | 100.00 | |
| Mrs. Bayard Warren | 100.00 | |
| J. Collins Warren | 100.00 | |
| Frank G. Webster and Mrs. Webster | 100.00 | |
| Welfare Fund, through Charles A. Dean, Trustee | 25.00 | |
| Mrs. Henry C. Weston | 100.00 | |
| William P. Wharton | 50.00 | |
| Mrs. Andrew C. Wheelwright | 20.00 | |
| George R. White | 500.00 | |
| Edward F. Whitney | 100.00 | |
| Frank Whitney | 25.00 | |
| George Wigglesworth | 100.00 | 14,155.00 |

Laboratory Fund:

| | | |
|------------------------------|------------|----------|
| Anonymous | \$5,000.00 | |
| Robert K. Cassatt | 100.00 | |
| Alexander Cochrane | 250.00 | |
| A friend | 250.00 | |
| Henry S. Howe | 100.00 | |
| Charles C. Jackson | 100.00 | |
| Frederic Parker | 50.00 | |
| James A. Stillman | 50.00 | 5,900.00 |

The Harvard Infantile Paralysis Commission:

| | | |
|--|------------|----------|
| Anonymous | \$1,000.00 | |
| Anonymous | 1,000.00 | |
| Frederick S. Converse | 50.00 | |
| Mrs. Charles Jackson | 300.00 | |
| Arthur S. Johnson | 100.00 | |
| George H. Monks and Mrs. Monks | 100.00 | |
| Mrs. Charles G. Rice | 500.00 | |
| Robert Saltonstall | 250.00 | |
| Mrs. Robert Saltonstall | 250.00 | 3,550.00 |

Observatory:

Draper Catalogue:

| | |
|-----------------------------|----------|
| George R. Agassiz | 1,000.00 |
|-----------------------------|----------|

Amount carried forward, . . . \$304,920.84

Amount brought forward, . . . \$304,920.84

Observatory (*continued*):

Draper Memorial:

Mary Anna Palmer Draper (Mrs.
Henry Draper), Estate of . . . 9,000.00

Maria Mitchell Fellowships:

Charles S. Hinchman, Estate of . . . 250.00

Present use:

Edward C. Pickering 1,500.00

Peabody Museum of American Archaeology and
Ethnology:

Arizona Expedition:

| | | |
|----------------------------------|---------|--------|
| Frank E. Guernsey | \$25.00 | |
| Augustus Hemenway | 100.00 | |
| John M. Longyear | 100.00 | |
| Mrs. Samuel K. Lothrop | 600.00 | 825.00 |

Congo River Collection:

Archibald Cary Coolidge 200.00

Library of the Peabody Museum of American
Archaeology and Ethnology:

John B. Stetson, Jr. 100.00

Maya codices:

Anonymous 500.00

Present use:

| | | |
|-----------------------------|----------|----------|
| Augustus Hemenway | \$48.84 | |
| Clarence B. Moore | 500.00 | |
| Charles Peabody | 62.75 | |
| A. Hamilton Rice | 5,500.00 | 6,111.39 |

Purchase of specimens:

Augustus Hemenway 100.00

Amount carried forward, . . . \$323,507.23

Amount brought forward, . . . \$323,507.23

Peabody Museum of American Archaeology and
Ethnology (*continued*):

Toward meeting the cost of opening the Mu-
seum on Sunday afternoons:

| | | |
|-------------------------------|---------|--------|
| Roland B. Dixon | \$25.00 | |
| Augustus Hemenway | 100.00 | |
| Samuel Henshaw | 25.00 | |
| Charles Peabody | 50.00 | |
| Robert W. Sayles | 25.00 | |
| Alfred M. Tozzer | 25.00 | |
| Edward Wigglesworth | 25.00 | 275.00 |

Phillips Brooks House:

For students' work:

| | |
|---------------------|--------|
| Anonymous | 200.00 |
|---------------------|--------|

Stadium:

To meet the cost of erecting a flag-staff, in
memory of her son, Dr. Milton Bettmann,
of the Class of 1897:

| | |
|-------------------------------|--------|
| Mrs. Louis Bettmann | 500.00 |
|-------------------------------|--------|

University:

Retiring Allowances:

| | |
|--|-----------|
| The Carnegie Foundation for the Advancement of Teaching . . | 63,428.60 |
|--|-----------|

Unrestricted:

| | | |
|-------------------------|----------|--------|
| Anonymous | \$100.00 | |
| Evan Randolph | 100.00 | 200.00 |

University Press:

Present use:

| | |
|---------------------|--------|
| Anonymous | 800.00 |
|---------------------|--------|

| | |
|------------------|--------------|
| Total, | \$388,910.83 |
|------------------|--------------|

SCHEDULE 1

SPECIAL INVESTMENTS

June 30, 1917

| UNIVERSITY | | Principal. | Net Income. |
|---|--|--------------|-------------|
| J. Arthur Beebe, | | | |
| Real Estate, Falmouth, | | \$32,000.00 | \$357.92 |
| “ “ Boston (sold during year), . . . . . |  | ..... | 3,568.88 |
| John W. Carter, | | | |
| University Houses and Lands, | | 12,500.00 | 207.50 |
| George B. Dorr, | | | |
| University Houses and Lands, | | 115,966.56 | 1,923.73 |
| George Draper, | | | |
| University Houses and Lands, | | 48,453.50 | 803.43 |
| Robert H. Eddy, | | | |
| University Houses and Lands, | | 56,787.00 | 941.53 |
| John Davis Williams French, | | | |
| University Houses and Lands, | | 5,322.09 | 88.24 |
| John C. Gray, | | | |
| University Houses and Lands, | | 25,000.00 | 414.75 |
| Walter Hastings, | | | |
| Real Estate, Sacramento St., Cambridge, | | 20,000.00 | 907.73 |
| Henry L. Higginson, | | | |
| University Houses and Lands, | | 29,676.55 | 492.19 |
| Insurance and Guaranty, | | | |
| Real Estate, Lucas St., Boston, | | 4,000.00 | ..... |
| Joseph Lee, | | | |
| University Houses and Lands, | | 10,000.00 | 165.80 |
| Francis E. Parker, | | | |
| University Houses and Lands, | | 113,817.44 | 1,888.08 |
| Henry L. Pierce (Residuary) (part), | | | |
| Equipment at Memorial Hall, | | 152,098.14 | 6,844.42 |
| Riverside, | | | |
| 11 shares Harvard Riverside Associates, | | 11,000.00 | ..... |
| Henry Villard, | | | |
| University Houses and Lands, | | 50,000.00 | 829.00 |
| William F. Weld, | | | |
| University Houses and Lands, | | 100,000.00 | 1,658.00 |
| Edward Whitney, | | | |
| Real Estate, South Boston (sold during year), . . . . . |  | ..... | 809.37 |
| Amounts carried forward, | | \$786,626.28 | \$21,400.57 |

COLLEGE

| | Principal. | Net Income. |
|---|----------------|-------------|
| Amounts brought forward, | \$786,626.28 | \$21,400.57 |
| Caroline M. Barnard Bequest (part), | | |
| \$1,000 City Real Estate Trustees, | 800.00 | 50.00 |
| 7 shares United Zinc Co., preferred, | 70.00 | ..... |
| Daniel A. Buckley (part), | | |
| Real Estate in Cambridge, Mass., | 65,558.47 | 5,024.97 |
| " " Deer Isle, Me., | 1.00 | ..... |
| Victor Emanuel Chapman Memorial Fellowship, | | |
| \$5,000 American Tel. & Tel. Co. conv. 4½'s of 1933, | 5,000.00 | 112.50 |
| 1,000 Baltimore & Ohio R.R. 3½'s of 1925, | 1,000.00 | ..... |
| 2,000 Northern Pacific-Great Northern Rys. Joint 4's of 1921, | 2,000.00 | ..... |
| 1,000 Fitchburg R.R. 4's of 1925, | 1,000.00 | 20.00 |
| 1,000 City of Cambridge Bridge Loan 4's of 1921, | 1,000.00 | ..... |
| George Newhall Clark, | | |
| 100 shares St. Joseph R'y, Light, Heat & Power Co., preferred, | 10,000.00 | 500.00 |
| Class of 1888 (part), | | |
| 25 shares Hotel Realty Co., | 2,000.00 | 75.00 |
| Class of 1889 (part), | | |
| 4 Shares Claverly Trust, | 2,000.00 | 50.00 |
| \$500 University Club of St. Louis 5's of 1916 (sold during year), . . . . . | ..... | 23.75 |
| 500 University Building Co. 2d 6's of 1929, | 500.00 | ..... |
| Class of 1892, | | |
| \$100,000 U. S. Government Fifteen-Thirty Year Liberty Loan 3½'s, | 100,000.00 | ..... |
| Edward W. Codman (part), | | |
| 75 shares Pacific Mills, | 4,560.00 | 480.00 |
| 10 " Barristers Hall Trust, | 710.20 | 40.00 |
| Edward Erwin Coolidge, | | |
| 200 shares U. S. Smelting, Ref. & Mining Co., pref'd, | 9,000.00 | 700.00 |
| T. Jefferson Coolidge, for Research in Physics, | | |
| 649 shares Massachusetts Electric Cos., cum. pref'd (sold during year), . . . . . | ..... | ..... |
| Alexis Irenée Du Pont Fund, | | |
| \$100,000 Anglo-French Ext. Loan 5's of 1920, | 93,000.00 | ..... |
| Eliot Professorship (Jonathan Phillips's Gift), | | |
| \$10,000 City of Boston 3½'s of 1920, | 10,000.00 | 350.00 |
| Edwin William Friend Memorial Fund, | | |
| \$500 United Light & Railways Co. 6's Gold Notes of 1920, | 500.00 | 15.00 |
| Professorship of Hygiene (part), | | |
| Policy of Mass. Hospital Life Insurance Co., | 5,000.00 | 212.50 |
| Amounts carried forward, | \$1,100,325.95 | \$29,054.29 |

Principal Net Income.

| | | |
|--|----------------|-------------|
| Amounts brought forward, | \$1,100,325.95 | \$29,054.29 |
| George H. Leatherbee Lecture Fund, | | |
| \$5,000 Ames Plow Co., 1st M. 5's of 1932, | 4,850.00 | 250.00 |
| 4,000 Seaboard Air Line R'y 6's of 1945 (sold during year), . . . . . | ..... | 177.00 |
| 1 share Boston Opera Co. (charged off during y'r), . . . . . | ..... | ..... |
| Morris Loeb Bequest (part), | | |
| Mortgage Notes, | 152,000.00 | 6,600.00 |
| 400 shares American Tel. & Tel. Co., | 48,700.00 | 3,200.00 |
| 200 " Amoskeag Manufacturing Co., preferred, | 19,800.00 | 900.00 |
| 12 " Boston Real Estate Trust, | 13,320.00 | 540.00 |
| 500 " Congress Street Associates, | 48,750.00 | 2,125.00 |
| 200 " Edison Electric Illuminating Co. of Boston, | 51,800.00 | 2,400.00 |
| 500 " Massachusetts Gas Co., preferred, | 47,500.00 | 2,000.00 |
| 500 " Trimountain Trust, | 50,000.00 | 2,250.00 |
| 250 " Western Real Estate Trust, | 38,750.00 | 1,750.00 |
| 400 " Western Union Telegraph Co., | 25,317.00 | 2,500.00 |
| Emily H. Moir Bequest (part), | | |
| 4 shares Emily H. Moir Estate, Inc., | 1.00 | ..... |
| James J. Myers Fund, | | |
| 768 shares American Tel. & Tel. Co. (sold during year), . . . . . | ..... | 3,056.84 |
| Cash in American Trust Co., . . . . . | ..... | 8.45 |
| Charles Eliot Norton Fellowship, | | |
| \$15,000 Northern Pacific-Great Northern Joint 4's (C. B. & Q. collateral) of 1921, | 14,100.00 | 600.00 |
| 5,000 Louisville & Nashville Unified M. 4's of 1940, | 5,000.00 | 200.00 |
| John Knowles Paine Fellowships in Music, | | |
| Mortgage Notes, | 28,000.00 | 1,288.12 |
| George Foster Peabody Scholarship, | | |
| \$6,000 Mexican Coal & Coke Co. 1st M., S. F. 5's of 1926, | 4,800.00 | ..... |
| William Reed Scholarship, | | |
| \$1,000 New York Central & H. R. Gold 3½'s of 1997, | 1,000.00 | 35.00 |
| Nelson Robinson Jr. Additional (part), | | |
| 1,750 shares Gauley Coal Land Co., preferred, | 175,000.00 | ..... |
| Eliza O. and Mary P. Ropes (part), | | |
| 100 shares Chicago, Milwaukee & St. Paul, | 13,071.88 | 500.00 |
| 100 " Northern Pacific, | 11,986.50 | 700.00 |
| 220 " Pennsylvania, | 12,888.50 | 660.00 |
| Dunlap Smith Scholarship, | | |
| \$5,000 Metropolitan West Side Elevated R. R. Ex- tension M. 4's of 1938, | 4,700.00 | 200.00 |
| Henry Baldwin Stone Memorial, | | |
| \$66,000 Mississippi River Power Co. 1st M. 5's of 1951, | 53,460.00 | 3,300.00 |
| Amounts carried forward, | \$1,920,120.88 | \$64,294.50 |

| | Principal. | Net Income. |
|--|----------------|-------------|
| Amounts brought forward, | \$1,920,120.88 | \$64,294.50 |
| Stoughton Scholarship (part), | | |
| Real Estate in Dorchester, | 8,868.80 | ..... |
| Teachers' Endowment (part), | | |
| 50 shares Broadway Realty Co., preferred, . . . | 5,000.00 | ..... |
| 50,000 Wisconsin Central, Minneapolis Terminal | | |
| Purchase Money M. 3½'s of 1950, | 50,000.00 | 1,750.00 |
| 10 shares Harvard Riverside Associates, | 10,000.00 | ..... |
| Lee Wade II Prize Fund, | | |
| \$1,000 School District of the Borough of Olyphant | | |
| 5's of 1943, | 1,000.00 | 50.00 |
| Samuel Ward's Gift (part), | | |
| Ward's (Bumkin) Island, Boston Harbor, | 1.00 | ..... |
| Gordon Wendell (part), | | |
| \$2,000 Chicago, Burl. & Quincy R. R. (Ill. Div.) | | |
| 4's of 1949 | 2,000.00 | 80.00 |

LIBRARY

| | | |
|--|-----------|--------|
| Anonymous Library Fund, | | |
| 200 shares Washington Water Power Co., | 25,000.00 | 800.00 |
| William R. Castle Fund, | | |
| \$1,000 Digamma Club 4½'s of 1926, | 900.00 | 67.50 |
| Peter P. F. Degrand Fund, | | |
| 50 shares Trimountain Trust, | 4,500.00 | ..... |
| Francis Parkman Memorial (part), | | |
| \$5,000 Louisville & Jeffersonville Bridge 1st M. | | |
| Gold 4's of 1945, | 4,500.00 | 200.00 |
| Robert Gould Shaw (part), | | |
| \$10,000 Northern Texas Electric Co. 5's of 1940 | | |
| (sold during year), . . . . . | ..... | 250.00 |
| 10,000 Taylor & Wharton Iron & Steel Co. 6's of | | |
| 1942 (sold during year), . . . . . | ..... | 300.00 |
| 10,000 Wilmington City Electric Co. 5's of 1951 | | |
| (sold during year), . . . . . | ..... | ..... |
| John Harvey Treat (part), | | |
| 180 Shares Treat Hardware Supply Co., | 6,500.00 | 780.00 |
| Ichabod Tucker (part), | | |
| Policy of Mass. Hospital Life Insurance Co., . . . | 5,000.00 | 212.50 |

LAW SCHOOL

| | | |
|---|----------------|-------------|
| James and Augusta Barnard Law Fund, | | |
| 60 shares American Tel. & Tel. Co., | 7,320.00 | 480.00 |
| 17 " Boston & Albany R. R. Co., | 8,060.00 | 148.75 |
| Amounts carried forward, | \$2,048,770.63 | \$69,413.25 |

| | Principal. | Net Income. |
|--|----------------|-------------|
| Amounts brought forward, | \$2,048,770.68 | \$69,413.25 |
| James and Augusta Barnard Law Fund | | |
| <i>(continued).</i> | | |
| \$4,000 Kansas City Elevated R'y Gen. M. 4's of 1922, | 2,800.00 | ..... |
| 600 Kansas City Light & Power Co. 5's of 1944 (sold during year), . . . . . | ..... | 27.00 |
| 1,400 Kansas City Railways Co. 5's of 1944 (sold during year), . . . . . | ..... | 63.00 |
| 70 shares Massachusetts Electric Co., preferred, . | 4,550.00 | ..... |
| 15 " New England Investment & Security Co., preferred, | 1,350.00 | 60.00 |
| Joshua Montgomery Sears, Jr. Memorial (part), | | |
| \$10,000 Minneapolis General Electric Gold M. 5's of 1934, | 10,000.00 | 500.00 |
| 10,000 New England R. R. Consol. M. 5's of 1945, | 10,000.00 | 500.00 |

MEDICAL SCHOOL

| | | |
|--|----------------|-------------|
| Robert Charles Billings (part), | | |
| Real Estate, Wigglesworth St. & Power House, Vila St., Boston (part), | 100,000.00 | 5,000.00 |
| John B. and Buckminster Brown Endowment, | | |
| 52 shares Pennsylvania R. R., | 5,200.00 | 156.00 |
| John C. Cutter Bequest, | | |
| \$6,250 Carthage Water Power Co., 1st M. 5 % Notes, | 1.00 | ..... |
| Dr. Henry Isaiah Dorr Chair of Research and Teaching, | | |
| \$5,000 Boston Elevated Ry. 5's of 1942, | 5,000.00 | 125.00 |
| 10,000 Chicago, Burlington & Quincy R.R. 3½'s of 1949, | 10,000.00 | ..... |
| 10,000 Illinois Central R.R. 3½'s of 1953, | 10,000.00 | ..... |
| 5,000 Lake Shore & Michigan Southern R.R. 3½'s of 1997, | 5,000.00 | 87.50 |
| 4,000 Lynn & Boston R. R. 5's of 1924, | 4,000.00 | 100.00 |
| 5,000 Michigan State Tel. Co. 5's of 1924, . . . | 5,000.00 | ..... |
| 5,000 N. Y. C. & H. R. R. R. 3½'s of 1997, . . . | 5,000.00 | ..... |
| 20,000 New York, New Haven & Hartford R. R. 4's of 1956, | 20,000.00 | 400.00 |
| 4,000 Oregon Short Line R. R. 4's of 1929, . . . | 4,000.00 | 80.00 |
| 2,000 Western Union Tel. Co. 4½'s of 1950, . . | 2,000.00 | 45.00 |
| Calvin and Lucy Ellis (part), | | |
| \$40,000 Northern Pacific-Great Northern Joint 4's (C. B. & Q. collateral) of 1921, | 26,585.00 | 1,600.00 |
| Real Estate in Eden, Bar Harbor, Maine (sold during year), . . . . . | ..... | ..... |
| Real Estate, Wigglesworth St. and Power House, Vila St., Boston (part), | 349,052.32 | 19,629.63 |
| Flattery Research Fund, | | |
| 100 shares Loews Theatrical Enterprises, | 11,800.00 | 875.00 |
| Amounts carried forward, | \$2,640,108.95 | \$98,661.88 |

| | Principal. | Net Income. |
|--|----------------|-------------|
| Amounts brought forward, | \$2,640,108.95 | \$98,661.38 |
| George Haven Bequest (part), | | |
| 12 shares Barristers Hall Trust, | 924.00 | 48.00 |
| Julia M. Moseley Fund, | | |
| \$15,000 Massachusetts 3½'s of 1939, | 13,950.00 | 525.00 |
| 10,000 Massachusetts 3½'s of 1939, | 9,300.00 | 350.00 |
| George C. Shattuck (1853), | | |
| \$25,000 Chicago, Milwaukee & St. Paul R. R. Conv. | | |
| 4½'s of 1932, | 25,000.00 | ..... |
| Francois Skinner (part), | | |
| 16 shares New England Investment & Securities, | | |
| preferred, | 640.64 | 64.00 |
| Morrill Wyman Medical Research Fund (part), | | |
| \$800 Colonial Club 5's of 1922, | 240.00 | 7.50 |
| 10 shares Delaware & Hudson Co., | 1,500.00 | 90.00 |
| 58 " Fitchburg R. R. Co., preferred, | 4,176.00 | 290.00 |
| 36 " Illinois Central R. R. Co., | 3,888.00 | 252.00 |
| 22 " Maine Central R. R. Co., | 2,200.00 | 132.00 |
| 1 share Old Colony R. R. Co., | 133.00 | 5.25 |
| 16 shares Pennsylvania R. R. Co., | 928.00 | 48.00 |

MUSEUM OF COMPARATIVE ZOOLOGY

| | | |
|--|-----------|--------|
| Alexander Agassiz Bequest, Clause XI, | | |
| Real Estate in Cambridge, | 40,000.00 | 178.60 |

OBSERVATORY

| | | |
|--|----------|----------|
| Advancement of Astronomical Science (1902), | | |
| 15 shares Calumet & Hecla Mining Co., | 9,000.00 | 1,425.00 |
| 3 " Tamarack Mining Co., . . . . . | ..... | ..... |

PEABODY MUSEUM OF AMERICAN ARCHAEOLOGY
AND ETHNOLOGY

| | | | |
|---|--|---------------------------------------|----------------------------------|
| Peabody Building (part), | } \$54,000 Kansas & Mis- souri R. R. 1st M. 5's of 1922, | { 11,512.72 19,218.64 19,218.64 | { 622.32 1,088.84 1,088.84 |
| Peabody Collection (part), | | | |
| Peabody Professor (part), | | | |
| Thaw (part) (\$8.83 deducted from income for sinking premium), | | | |
| \$20,000 Girard Point Storage Co. 1st M. 3½'s of 1940, | 20,194.24 | | 691.17 |

ARNOLD ARBORETUM

| | | |
|---|----------|--------|
| Robert Charles Billings, | | |
| \$5,000 Butte Water Co. 1st M. 5's of 1921, | 4,000.00 | 250.00 |

BUSSEY INSTITUTION

| | | |
|---|----------------|--------------|
| Woodland Hill, | | |
| Laboratory of Comparative Pathology building, | 20,658.86 | 1,000.00 |
| Mrs. William H. Bliss Fund, | | |
| \$50,000 New York & New Jersey 5's of 1932, | 50,000.00 | ..... |
| Amounts carried forward, | \$2,896,791.69 | \$106,717.90 |

Principal. Net Income.

Amounts brought forward, \$2,896,791.69 \$106,717.90

SPECIAL FUNDS

| | | |
|--|----------------|--------------|
| Anonymous, | | |
| \$20,000 Massachusetts 8's of 1930, | 20,000.00 | 600.00 |
| 5,000 " " 1939 (sold during y'r), . . . . . | ..... | 191.67 |
| 19,000 " " 1941, | 19,000.00 | 570.00 |
| 189 shares Edison Electric Illum. Co. of Boston, . | 52,451.98 | 2,268.00 |
| Anonymous Fund No. 2, | | |
| 52 shares Massachusetts Gas Co., | 4,758.00 | 260.00 |
| 76 " Puget Sound Traction, Light, & Power Co., preferred, | 7,600.00 | 228.00 |
| 100 " Puget Sound Traction, Light, & Power Co., common, | 5,200.00 | ..... |
| 17 " United Fruit Co., | 2,686.00 | 136.00 |
| Anonymous Fund No. 3, | | |
| \$10,000 Consolidation Coal Co. 5's of 1950, . . . | 10,000.00 | 250.00 |
| 10,000 Cudahy Packing Co., 5's of 1946, | 10,000.00 | 250.00 |
| 10,000 Galveston, Harrisburg & San Antonio 6's of 1931, | 10,000.00 | ..... |
| 10,000 Great Britain and Ireland 5½'s of 1919, . | 10,000.00 | 275.00 |
| 10,000 Interborough Rapid Transit 5's of 1966, . | 10,000.00 | ..... |
| 50,000 Kansas City, Memphis & B'ham 5's of 1934, | 40,000.00 | 1,250.00 |
| Bussey Trust (part), | | |
| Real Estate in Boston, | 365,978.05 | 26,446.47 |
| Fund of the Class of 1834, | | |
| Policy of Mass. Hospital Life Insurance Co., . . . | 1,000.00 | 42.50 |
| Fund of the Class of 1844, | | |
| Policy of Mass. Hospital Life Insurance Co., . . . | 6,500.00 | 276.25 |
| Fund of the Class of 1853, | | |
| Policy of Mass. Hospital Life Insurance Co., . . . | 3,725.00 | 158.31 |
| Fund of the Class of 1857, | | |
| \$5,000 Kansas City, Fort Scott & Memphis 6's of 1928, | 5,000.00 | 300.00 |
| Freshman Halls, | | |
| Real Estate in Cambridge, | 99,672.60 | ..... |
| Price Greenleaf. (\$288.32 deducted from income for sinking premiums.) The total amount of this Fund is \$790,195.48, of which \$789,710.37 is invested as follows: | | |
| \$70,000 Broadway Realty Co. Purchase money | | |
| 1st M. 5's of 1926, | 71,696.00 | 3,289.00 |
| 48,500 Central Vermont R'y 1st M. 4's of 1920, . | 37,845.00 | 1,740.00 |
| 1,000 Chicago, Burl. & Quincy R. R. 4's of 1922, | 880.00 | 40.00 |
| 50,000 Chicago Junction Railways & Union Stock Yards Coll. Trust 5's of 1940, | 49,375.00 | 2,500.00 |
| 20,000 Cleveland R'y Ref. M. 5's of 1931, . . . | 20,000.00 | 1,000.00 |
| 61,000 Colorado Power Co. 5's of 1953, | 52,960.00 | 3,050.00 |
| Amounts carried forward, | \$3,813,119.32 | \$151,839.10 |

| | Principal. | Net Income. |
|--|----------------|--------------|
| Amounts brought forward, . . . | \$3,818,119.32 | \$151,839.10 |
| Price Greenleaf (continued). | | |
| \$30,000 Commonwealth Power Co. 1st M. 5's of 1924, | 29,850.00 | 1,500.00 |
| 35,000 Galveston Electric Co. 1st M. 5's of 1940, | 32,900.00 | 1,750.00 |
| 8,000 Kansas City, Fort Scott & Memphis Cons. M. 6's of 1928, | 8,778.28 | 402.68 |
| 50,000 Metropolitan Tel. & Tel. Co. 1st M. 5's of 1918, | 49,750.00 | 2,500.00 |
| 50,000 New England Tel. & Tel. Co. 5's of 1932, | 50,000.00 | 2,500.00 |
| 34,000 New York Central & Hudson River R. R. (Michigan Central Collateral) 3½'s of 1998, | 28,412.10 | 1,190.00 |
| 3,000 New York Railways Co. 1st R. E. & Ref. M. 4's of 1942, | 2,373.94 | 120.00 |
| 18,000 New York Railways Co. Adj. M. 5's of 1942, | 9,453.39 | 356.58 |
| 32,000 Northern Pacific-Great Northern Joint 4's (C. B. & Q. collateral) of 1921, | 19,993.55 | 1,280.00 |
| 50,000 Union Pacific R.R. 1st M. & L.G. 4's of 1947, | 44,625.00 | 2,000.00 |
| 360 shares Boston & Lowell R. R., | 46,800.00 | 2,880.00 |
| 237 " Fitchburg R. R., preferred, | 22,306.27 | 1,185.00 |
| 61 " Great Northern, preferred, | 13,445.31 | 427.00 |
| 40 " Great Northern Iron Ore Properties, . . . . . | ..... | 30.00 |
| 355 " Old Colony R. R., | 63,190.00 | 2,485.00 |
| 13 " N. Y. Central & Hudson River R. R., | 1,380.00 | 65.00 |
| 290 " Northern R. R. (N. H.), | 29,290.00 | 1,740.00 |
| 52 " West End Street Railway, preferred, | 4,305.56 | 208.00 |
| 34 " Central Vermont R'y, | 428.72 | ..... |
| 855 " Pennsylvania R. R., | 59,256.04 | 2,565.00 |
| 21 " Boston Real Estate Trust, | 27,483.25 | 945.00 |
| 100 " Paddock Building Trust, | 10,000.00 | 450.00 |
| Cash in American Trust Co., | 2,988.01 | 56.75 |
| Charles L. Hancock Bequest (part), | | |
| Real Estate in Chicago, | 65,000.00 | 3,955.08 |
| Gordon McKay Endowment (part), | | |
| \$120,000 American Tel. & Tel. 4's of 1929, | 114,000.00 | 4,800.00 |
| 100,000 Kanawha & Michigan 5's of 1927, | 95,500.00 | 5,000.00 |
| 12,250 Kansas City Light & Power Co. 6's of 1944 | 12,250.00 | 732.00 |
| 22,750 Kansas City Railways Co. 6's of 1944, . . | 22,750.00 | 1,362.00 |
| 80,000 New York, N. H. & H. Deb. 4's of 1955, . | 78,800.00 | 3,200.00 |
| 12,000 Puget Sound Electric 5's of 1932, | 11,760.00 | 600.00 |
| 860 shares American Tel. & Tel. Co., | 111,370.00 | 6,880.00 |
| 300 " Great Northern, | 42,713.37 | 2,100.00 |
| 240 " Northern Pacific, | 35,400.00 | 1,680.00 |
| 165 " Pennsylvania, | 10,800.75 | 495.00 |
| Robert Troup Paine (accumulating), | | |
| \$3,000 Massachusetts 3½'s of 1928, | 7,596.00 | 280.00 |
| 38,000 " " 1935, | 36,951.78 | 1,015.00 |
| 2,000 " " 1936, | 1,885.00 | 70.00 |
| 31,000 " " 1938, | 29,612.28 | 1,085.00 |
| Amounts carried forward, | \$5,046,462.87 | \$211,729.19 |

| | Principal. | Net Income. |
|---|-----------------------|---------------------|
| Amounts brought forward, . . . | \$5,046,462.87 | \$211,729.19 |
| Frederick Sheldon (part), | | |
| 21 shares Mexican Telegraph Co., | 3,900.29 | 248.00 |
| 100/15000th Trust Estate Hastings & Dak. Ry. Co., | 300.00 | 250.00 |
| George Smith Bequest (part), | | |
| \$10,000 Duquoin, Ill., Water Works Co. 6's of | | |
| 1901, | 1.00 | ..... |
| | <u>\$5,050,664.16</u> | <u>\$212,227.19</u> |

SUMMARY :

| | |
|---|-----------------------|
| Cash, Exhibit A, | \$2,938.01 |
| Securities, Exhibit A, | 3,162,308.77 |
| Land and Buildings, Exhibit A, | 1,885,417.88 |
| Interest and Dividends, Exhibit B, | 129,591.87 |
| Rents, Land and Buildings, Exhibit B, | 82,685.82 |
| | <u>\$5,050,664.16</u> |
| | <u>\$212,227.19</u> |

SCHEDULE 2

SECURITIES—GENERAL INVESTMENTS

June 30, 1917

| Mortgages and Other Loans. | | Principal. | Income. |
|--|---------------------|-----------------------|--------------------|
| Mortgages, | | \$684,177.29 | |
| Advances to Bussey Trust, | | 305,499.08 | |
| American Woolen Co., | | 100,000.00 | |
| Arlington Mills, | | 100,000.00 | |
| Boston Woven Hose & Rubber Co., | | 75,000.00 | |
| Everett Mills, | | 75,000.00 | |
| Hamilton Woolen Co., | | 50,000.00 | |
| Harmony Mills, | | 50,000.00 | |
| Otis Elevator Co., | | 100,000.00 | |
| Pacific Mills, | | 200,000.00 | |
| Saco-Lowell Shops, | | 50,000.00 | |
| Geo. A. Sawyer, Trustee, | | 1,000.00 | |
| Sharp Manufacturing Co., | | 50,000.00 | |
| Sherman Manufacturing Co., | | 50,000.00 | |
| Waltham Watch Co., | | 50,000.00 | |
| York Manufacturing Co., | | 75,000.00 | |
| | | <u>\$1,965,676.37</u> | <u>\$81,588.51</u> |
| Public Funds. | | | |
| \$50,000 Government of French Republic 5½% | | | |
| Notes of April, 1919, | \$49,500.00 |  | ..... |
| 80,000 Government of Switzerland 5's of 1920 | | | |
| (sold during year), | | | \$3,011.11 |
| 150,000 Great Britain & Ireland 5½% Gold Notes | | | |
| of February, 1918, | 149,280.00 |  | ..... |
| 100,000 Great Britain & Ireland 5½'s of 1921, . . | 98,500.00 | | 1,756.94 |
| 90,000 United States of America "Liberty | | | |
| Loan" 3½'s, | 90,000.00 |  | ..... |
| 94,000 United States of Mexico 4's of 1954, . . | 87,250.00 |  | ..... |
| | <u>\$474,530.00</u> | | <u>\$4,768.05</u> |
| Railroad Bonds. | | | |
| \$100,000 Baltimore & Ohio 1st M. 4's of 1948, . . | \$96,625.00 | | \$4,000.00 |
| 21,000 Baltimore & Ohio Conv. 4½'s of 1933, . . | 20,058.30 | | 945.00 |
| 100,000 B. & O. (S. W. Div.) 1st M. 3½'s of 1925, | 89,750.00 | | 3,500.00 |
| 100,000 Baltimore & Ohio (Pittsburg, Lake Erie | | | |
| & West Virginia) Ref. M. 4's of 1941, | 99,250.00 | | 4,000.00 |
| 125,000 Bangor & Aroostook Cons. Ref. M. 4's of | | | |
| 1951, | 118,750.00 | | 5,000.00 |
| 100,000 Boston & Albany, Ref. M. 5's of 1963, | 102,141.60 | | 4,952.40 |
| 50,000 Boston & Albany R'y Equipment 4½% | | | |
| Notes due 1916 (sold during year), | | | 1,125.00 |
| 12,000 Burl. & Mo. in Nebr. non-ex. 6's of 1918, | 12,300.00 | | 1,140.00 |
| 50,000 Canadian Northern 6's of 1917, | 50,000.00 | | 1,850.00 |
| Amounts carried forward, | <u>\$588,874.90</u> | | <u>\$26,012.40</u> |

| | Principal. | Income. |
|---|----------------|--------------|
| Amounts brought forward, | \$588,874.90 | \$26,012.40 |
| Railroad Bonds (continued). | | |
| \$544,000 Chicago, Burl. & Quincy 3½'s of 1949, . . | 536,570.49 | 19,040.00 |
| 150,000 " " Gen. M. 4's of 1958, | 145,250.00 | 6,000.00 |
| 40,400 Chicago, Milwaukee & St. Paul Conv. 4½'s of 1932, | 40,430.35 | 1,815.83 |
| 23,900 Chicago, Milwaukee & St. Paul Conv. 5's of 1914, | 23,900.00 | 1,195.00 |
| 100,000 Chicago & No. Western Gen. M. 3½'s of 1987, | 100,828.90 | 3,487.90 |
| 50,000 Chicago & Western Indiana 5's of 1917, | 49,500.00 | 2,500.00 |
| 100,000 Chicago, Rock Island & Pacific Gen. M. 4's of 1988, | 105,575.40 | 3,920.86 |
| 184,000 Duluth, Missabe & Northern General M. 5's of 1941, | 194,435.42 | 8,746.28 |
| 100,000 Galveston, Harrisburg & San Antonio, Mex. & Pac. Ext. 5's, | 99,250.00 | 1,016.68 |
| 100,000 Illinois Central R'y and Chicago, St. Louis, & New Orleans R'y Joint 1st Ref. M. 5's of 1963, | 98,750.00 | 5,000.00 |
| 100,000 Indiana, Ill. & Iowa 1st M. 4's of 1950, | 96,500.00 | 4,000.00 |
| 100,000 Indianapolis Union R'y Gen. & Ref. M. 5's of 1965, | 99,250.00 | 5,000.00 |
| 225,000 Kansas City, Fort Scott & Memphis Cons. M. 6's of 1928, | 248,126.41 | 11,187.36 |
| 134,000 Kansas City, Memphis & Birmingham (assented) Income 5's of 1934, | 120,300.00 | 16,281.00 |
| 139,000 Kansas City Terminal R'y 1st M. Gold 4's of 1960, | 129,100.00 | 5,560.00 |
| 100,000 Lake Shore & Michigan Southern Deb. 4's of 1931, | 93,250.00 | 4,000.00 |
| 300,000 Long Island Unified M. 4's of 1949, | 283,257.50 | 12,000.00 |
| 200,000 Louisville & Jeffersonville Bridge Co. 1st M. 4's of 1945, | 191,000.00 | 8,000.00 |
| 100,000 Minneapolis Union 1st M. 5's of 1922, | 100,621.41 | 4,844.65 |
| 100,000 Montana Central 1st M. 6's of 1937, | 122,703.81 | 4,805.05 |
| 100,000 New Orleans, Texas & Mexico 6's of 1925, | 99,000.00 | 1,633.38 |
| 138,000 New York Central Conv. Deb. 6's of 1935, | 130,600.00 | 7,980.00 |
| 300,000 New York Central 4's of 1998, | 294,464.40 | 12,000.00 |
| 100,000 New York, Lake Erie, & Western Docks & Improvement Co. 1st M. 5's of 1943, | 100,000.00 | 5,000.00 |
| 25,000 New York, New Haven & Hartford Convertible Deb. 6's of 1948, | 25,000.00 | 1,500.00 |
| 100,000 New York, New Haven & Hartford Deb. 4's of 1955, | 104,743.60 | 3,871.80 |
| Amounts carried forward, | \$4,221,282.59 | \$186,397.64 |

GENERAL INVESTMENTS

| | Principal. | Income. |
|--|-----------------------|---------------------|
| Amounts brought forward, . . . | \$4,221,282.59 | \$186,397.64 |
| Railroad Bonds (<i>continued</i>). | | |
| \$100,000 New York, New Haven & Hartford 4% Gold Notes of 1917 (sold during year), . . . . . | ..... | 8,655.29 |
| 200,000 New York, Ontario & Western Ref. M. 4's of 1922, | 208,686.95 | 7,882.60 |
| 100,000 New York, Westchester & Boston R'y 1st M. 4½'s of 1946, | 96,250.00 | 4,500.00 |
| 370,000 Northern Pacific-Great Northern Joint 4's (C. B. & Q. Coll.) of 1921, | 190,549.67 | 13,720.00 |
| 100,000 Oregon Short Line Cons. 1st M. 5's of 1946, | 112,064.17 | 4,569.14 |
| 100,000 Oregon Short Line Ref. M. 4's of 1929, | 96,875.00 | 4,000.00 |
| 9,000 Pennsylvania Co. 3½'s of 1916 (sold during year), . . . . . | ..... | 157.50 |
| 250,000 Richmond-Washington Co. Coll. Trust 4's of 1943, Series C, | 254,302.60 | 9,827.90 |
| 100,000 St. Louis & San Francisco P. L. 4's of 1950, | 90,900.00 | 4,574.31 |
| 25,000 St. Louis & San Francisco Cum. Adj. 6's of 1955, | 24,281.25 | 2,250.00 |
| 100,000 St. Louis & San Francisco Ref. M. 4's of 1951 (sold during year), . . . . . | ..... | 4,386.00 |
| \$40,000 St. Paul, Minneapolis & Manitoba (Paci- fic Extension) 4's of 1940, | 199,018.73 | 7,526.63 |
| \$100,000 Southern Pacific 1st Ref. M. 4's of 1955, | 97,062.50 | 4,000.00 |
| 100,000 Southern Pacific Co. Conv. 4's of 1929, | 99,625.00 | 4,000.00 |
| 400,000 Terminal R. R. Association of St. Louis Gen. M. Ref. 4's of 1953, | 358,000.00 | 16,000.00 |
| 400,000 Union Pacific 1st M. & L. G. 4's of 1947, | 353,114.75 | 16,000.00 |
| 100,000 " " Conv. 4's of 1927, | 95,392.50 | 4,000.00 |
| | <u>\$6,497,405.71</u> | <u>\$297,447.01</u> |
| Traction Bonds. | | |
| \$100,000 Boston Elevated R'y 5's of 1942, . . . | \$100,000.00 | \$5,000.00 |
| 200,000 Chicago Railways 1st M. 5's of 1927, . | 198,166.70 | 10,000.00 |
| 100,000 Cleveland Railway Ref. M. 5's of 1931, | 100,000.00 | 5,000.00 |
| 100,000 Georgia Railway & Power Co. 5's of 1954, | 92,500.00 | 3,597.22 |
| 300,000 Interborough-Metropolitan Coll. Trust 4½'s of 1956, | 254,782.50 | 13,500.00 |
| 200,000 Interborough Rapid Transit Co. 5's of 1966, | 197,000.00 | 10,000.00 |
| 100,000 Kansas City Railways 5½'s of 1918 (sold during year), . . . . . | ..... | 6,493.05 |
| 25,000 Market Street (San Francisco) Cable R'y Ext'd 6's of 1916 (sold during y'r), . . . . . | ..... | 500.00 |
| Amounts carried forward, | \$942,449.20 | \$54,090.27 |

| | Principal. | Income. |
|---|-----------------------|--------------------|
| Amounts brought forward, . . . | \$942,449.20 | \$54,090.27 |
| Traction Bonds (continued). | | |
| \$100,000 Metrop. West Side Elevated 4's of 1938, | 91,746.25 | 4,000.00 |
| 100,000 " " " Ext. M. 4's | | |
| of 1938, | 97,000.00 | 4,000.00 |
| 150,000 Montreal Tramways Co. 1st M. Ref. 5's | | |
| of 1941, | 149,625.00 | 7,500.00 |
| 71,000 New York Railways Co. Adj. M. 5's of | | |
| 1942, | 37,814.09 | 1,406.51 |
| 16,000 New York Railways Co. 1st R. E. & Ref. | | |
| M. 4's of 1942, | 12,537.67 | 640.00 |
| 100,000 Northern Texas Traction Co. 1st M. 5's | | |
| of 1938, | 100,000.00 | 5,000.00 |
| 100,000 Nova Scotia Tramways & Power Co. | | |
| 5's of 1946, | 94,500.00 | 1,791.67 |
| 300,000 Old Colony Street R'y 1st M. Ref. 4's of | | |
| 1954, | 270,500.00 | 12,000.00 |
| 100,000 Second Ave. (N.Y.) Con. M. 5's of 1948, | 115,789.60 | ..... |
| 21,000 Third Avenue R'y 1st Ref. M. 4's of | | |
| 1960, | 17,220.50 | 840.00 |
| 55,500 Third Avenue R'y Adj. Inc. 5's of 1960, | 40,489.42 | 2,775.00 |
| | <u>\$1,969,171.73</u> | <u>\$94,043.45</u> |

Sundry Bonds.

| | | |
|---|----------------|-------------|
| \$100,000 Adirondack Electric Power Co. 5's of | | |
| 1962, | \$98,000.00 | \$1,805.56 |
| 100,000 Alabama Power Co. 5's of 1946, . . . | 95,000.00 | 638.89 |
| 200,000 American Agricultural Chemical Co. 5's | | |
| of 1924, | 190,000.00 | 10,000.00 |
| 100,000 American Foreign Securities Co. 5's of | | |
| 1919, | 98,000.00 | 2,458.33 |
| 200 000 American Smelting & Refining Co. 1st | | |
| 5's of 1947, | 196,000.00 | ..... |
| 100,000 American Tel. & Tel. Co. 4's of 1929, . | 101,796.67 | 12,000.00 |
| 5,000 American Tel. & Tel. Co. 4½'s of 1919 | | |
| (sold during year), . . . . . | ..... | 250.62 |
| 120,000 American Tel. & Tel. Co. 5's of 1946, . | 117,600.00 | 2,800.00 |
| 100,000 Bell Telephone Co. of Canada 5's of | | |
| 1925, | 100,700.00 | 4,887.50 |
| 50,000 Bethlehem Steel Co. 5's of 1919, . . . | 49,250.00 | ..... |
| 50,000 Boston Consolidated Gas Co. 4½'s of | | |
| 1919, | 50,000.00 | 2,250.00 |
| 145,000 Broadway Realty Co. Purchase money | | |
| 1st M. 5's of 1926, | 149,450.42 | 6,693.70 |
| 100,000 Chicago Junction Railways and Union | | |
| Stock Yards 5's of 1940, | 98,500.00 | 5,000.00 |
| 100,000 Chicago Junction Railways and Union | | |
| Stock Yards 4's of 1940, | 98,750.00 | 4,000.00 |
| Amounts carried forward, | \$1,443,047.09 | \$52,784.60 |

GENERAL INVESTMENTS

| | Principal. | Income. |
|---|----------------|--------------|
| Amounts brought forward, | \$1,443,047.09 | \$52,784.60 |
| Sundry Bonds (<i>continued</i>). | | |
| \$100,000 Chicago Telephone Co. 5's of 1923, . . | 101,189.26 | 4,762.13 |
| 75,000 Chicago Union Station 4½'s of 1963, . . | 75,000.00 | 2,831.25 |
| 100,000 Cincinnati Gas and Electric 5's of 1956, | 99,560.00 | 4,583.33 |
| 107,000 City of Victoria, B. C., Deb. 4½'s of 1923, | 100,770.00 | 4,500.00 |
| 100,000 Commonwealth Edison Co. 1st M. 5's of 1943, | 100,000.00 | 5,000.00 |
| 99,000 Crane Company 5½'s of 1944, | 98,970.00 | 4,629.17 |
| 100,000 Cudahy Packing Co. 5's of 1946 (sold during year), . . . . . | ..... | 430.55 |
| 100,000 Detroit Edison Co. 1st M. 5's of 1933 (sold during year), . . . . . | ..... | 5,194.44 |
| 50,000 Electric Securities Corporation 5's of 1940, 9th series, | 50,000.00 | 2,500.00 |
| 50,000 Electric Securities Corporation 5's of 1942, 11th series, | 50,000.00 | 2,500.00 |
| 62,000 Electric Securities Corporation 5's of 1946, 14th series, | 61,410.00 | 2,340.28 |
| 100,000 General Electric Co. Deb. 5's of 1952, | 99,750.00 | 5,000.00 |
| 200,000 Great Western Power Co. 5's of 1946, | 177,500.00 | 4,611.11 |
| 300,000 Illinois Steel Co. Deb. 4½'s of 1940, . . | 284,250.00 | 13,500.00 |
| 100,000 International Cotton Mills Co. 6% Notes of 1918, | 100,000.00 | 1,416.67 |
| 150,000 Kansas City Stock Yards Co. Deb. 5's of 1920, | 150,000.00 | 7,500.00 |
| 100,000 Mahoning & Shenango Railway and Light Co. 5's of 1920, | 97,500.00 | 5,000.00 |
| 50,000 Massachusetts Gas Co.'s S. F. 4½'s of 1929, | 48,375.00 | 2,250.00 |
| 100,000 Michigan State Telephone Co. 5's of 1924, | 100,000.00 | 5,000.00 |
| 300,000 Midvale Steel & Ordnance Co. 5's of 1936, | 295,751.25 | 11,458.51 |
| 100,000 Minneapolis General Electric Co. Gen. M. 5's of 1934, | 101,468.99 | 4,908.20 |
| 105,400 Montana Power Co. 5's of 1943, | 96,441.00 | 5,270.00 |
| 100,000 Municipal Gas & Electric Co. of Roches- ter, N. Y., 1st M. 4½'s of 1942, | 100,000.00 | 4,500.00 |
| 100,000 National Tube Co. 5's of 1952, | 99,750.00 | 5,000.00 |
| 100,000 Nipe Bay Co. 5's of 1925, | 92,500.00 | 5,000.00 |
| 100,000 Northern States Power Co. 5's of 1941, | 96,500.00 | 4,625.00 |
| 85,000 North Western Tel. Exchange 4½'s of 1918 (sold during year), . . . . . | ..... | 4,260.63 |
| 100,000 Pacific Coast Power 5's of 1940, . . . | 96,000.00 | 5,000.00 |
| 55,000 Pejepscot Paper Co. 1st M. 5's of 1917 (sold during year), . . . . . | ..... | 2,750.00 |
| 45,000 Pejepscot Paper Co. 1st M 5's of 1921, | 44,550.00 | 2,250.00 |
| 200,000 Portland Gen'l Elec. 1st M. 5's of 1935, | 202,202.42 | 9,870.42 |
| Amounts carried forward, | \$4,462,485.01 | \$201,226.29 |

| | Principal. | Income. |
|---|----------------|--------------|
| Amounts brought forward, | \$4,462,485.01 | \$201,226,29 |
| Sundry Bonds (continued). | | |
| \$100,000 Portland R'y Light & Power Co. 1st M. 5's of 1942, | 95,500.00 | 5,000.60 |
| 100,000 Public Service Co. of Northern Illinois 6's of 1918, | 100,950.00 | ..... |
| 143,500 Puget Sound Traction, Light & Power Co. 6's of 1919, | 142,386.88 | 5,652.00 |
| 50,000 Railway & Light Securities Co. Coll. Trust 5's of 1935, 1st series | 50,162.68 | 2,490.44 |
| 100,000 Railway & Light Securities Co. Coll. Trust 5's of 1939, 2d series, | 100,000.00 | 5,000.00 |
| 100,000 Railway & Light Securities Co. Coll. Trust 5's of 1939, 3d series, | 98,000.00 | 5,000.00 |
| 50,000 Railway & Light Securities Co. Coll. Trust 5's of 1944, 5th series, | 49,250.00 | 2,500.00 |
| 200,000 San Francisco Gas & Electric Co. 4½'s of 1933, | 187,000.00 | 9,000.00 |
| 100,000 Seattle Electric Co. 5's of 1930, | 100,923.07 | 2,957.80 |
| 196,000 Seattle Electric — Seattle Everett 5's of 1939, | 181,967.50 | 8,287.22 |
| 100,000 Southern Bell Telephone Co. 5's of 1941, | 99,000.00 | 5,000.00 |
| 200,000 Southern Power Co. 1st M. 5's of 1930, | 197,500.00 | 10,000.00 |
| 10,000 South Western Tel. & Tel. Co. 4½'s of 1918 (sold during year), . . . . . | ..... | 501.25 |
| 191,000 St. Louis National Stock Yards Co. 1st M. 4's of 1930, | 184,465.00 | 7,640.00 |
| 100,000 Tacoma Railway & Power Co. 1st M. 5's of 1929, | 100,744.60 | 4,932.80 |
| 50,000 United Electric Securities Co. Coll. Trust 5's of 1936, 24th series, | 50,000.00 | 2,500.00 |
| 10,000 United Electric Securities Co. Coll. Trust 5's of 1937, 26th series, | 10,000.00 | 500.00 |
| 25,000 United Electric Securities Co. Coll. Trust 5's of 1940, 32d series, | 25,196.44 | 1,241.07 |
| 100,000 United Electric Securities Co. Coll. Trust 5's of 1942, 37th series, | 99,500.00 | 5,000.00 |
| 100,000 United Electric Securities Co. Coll. Trust 5's of 1942, 36th series, | 100,000.00 | 5,000.00 |
| 23,000 United Electric Securities Co. Coll. Trust 5's of 1943, 38th Series, | 22,770.00 | ..... |
| 100,000 United Electric Securities Co. Coll. Trust 5's of 1944, 39th series, | 98,750.00 | 5,000.00 |
| 150,000 United Fruit Co. 4½'s of 1925, | 143,750.00 | 6,750.00 |
| 100,000 United States Rubber Co. 5's of 1947, | 87,850.00 | ..... |
| 50,000 U. S. Smelting, Refining & Mining Co. 6's of 1926, | 51,555.55 | 2,688.88 |
| Amounts carried forward, | \$6,839,656.73 | \$303,867.25 |

| | Principal. | Income. |
|--|-----------------------|---------------------|
| Amounts brought forward, . . . | \$6,839,656.73 | \$308,867.25 |
| Sundry Bonds (<i>continued</i>). | | |
| \$100,000 United Traction & Electric Co. 1st M. 5's of 1933, | 106,929.50 | 4,537.50 |
| 50,000 Waltham Watch Co. 4½% Gold Notes of 1918, | 50,000.00 | 2,050.00 |
| 100,000 Washington Water Power Co. 5% Notes of 1918, | 99,500.00 | 5,000.00 |
| 200,000 Washington Water Power Co. 5's of 1939, | 200,292.00 | 9,986.00 |
| 200,000 Western Elec. Co. 1st M. 5's of 1922, . | 199,000.00 | 10,000.00 |
| 100,000 Westinghouse Electric Manufacturing Co. 5% Notes of 1917, | 94,625.00 | 5,000.00 |
| 100,000 Winnsboro Mills Co. 6% Gold Notes of 1921, | 98,000.00 | ..... |
| | <u>\$7,688,003.28</u> | <u>\$340,440.75</u> |

Railroad Stocks.

| | | |
|--|-----------------------|--------------------|
| 812 shares Baltimore & Ohio, | \$79,829.17 | \$4,060.00 |
| 60 " Baltimore & Ohio, preferred, . . . | 4,500.00 | 240.00 |
| 507 " Chicago, Milwaukee & St. Paul, pfd., . . | 50,670.58 | 3,549.00 |
| 1268 " Chicago, Milwaukee & St. Paul, . . | 177,425.94 | 6,340.00 |
| 2510 " Chicago & No. Western, | 340,628.99 | 15,974.00 |
| 1653 " Great Northern, preferred, | 322,411.96 | 11,571.00 |
| 955 " Great Northern Iron Ore Properties, } | | 716.25 |
| 960 " Louisville & Nashville, | 109,924.00 | 6,720.00 |
| 8 " Louisville Property | 1.00 | ..... |
| 700 " Manhattan, | 92,762.50 | 4,900.00 |
| 288 " New York Central & Hudson River, . | 20,673.21 | 1,440.00 |
| 1000 " Northern Pacific, | 115,315.00 | 7,000.00 |
| 7576 " Pennsylvania, | 449,932.58 | 22,728.00 |
| 232 " Third Avenue Railway, | 5,800.00 | 464.00 |
| 500 " Union Pacific, | 77,812.50 | 5,250.00 |
| | <u>\$1,847,187.43</u> | <u>\$90,952.25</u> |

Manufacturing and Telephone Stocks.

| | | |
|--|---------------------|--------------------|
| 2000 shares American Smelters Securities Co. 5% cumulative preferred, series B (sold during year), . . . . . | ..... | \$10,000.00 |
| 3184 " American Tel. & Tel. Co., | \$390,109.52 | 25,479.75 |
| 450 " " " (part paid), | 22,275.00 | ..... |
| 360 " Amoskeag Manufacturing Co., . . . | 1.00 | 1,080.00 |
| 2000 " General Electric Co., | 59,942.50 | 16,000.00 |
| 187 " Merrimack Manufacturing Co., . . . | 18,615.10 | 748.00 |
| 1225 " Pacific Mills, | 42,708.29 | 7,840.00 |
| 1000 " Western Union Telegraph Co., . . . | 62,125.00 | 6,350.00 |
| | <u>\$595,776.41</u> | <u>\$67,397.75</u> |

| | Principal. | Income. |
|---|-----------------------|--------------------|
| Real Estate Trust Stocks. | | |
| 1000 shares Barristers Hall, | \$92,766.00 | \$4,000.00 |
| 548 " Boston Ground Rent Trust, | 54,800.00 | 1,411.19 |
| 250 " Business Real Estate, | 23,750.00 | 1,125.00 |
| 1870 " Congress Street Associates, | 181,700.00 | 7,947.50 |
| 2500 " Department Store, | 220,291.88 | ..... |
| 1000 " Essex Street, | 100,000.00 | 4,000.00 |
| 850 " Kimball Building, | 88,100.00 | 1,275.00 |
| 1090 " Paddock Building, | 104,458.72 | 4,905.00 |
| 1000 " Post Office Square Building, | 103,000.00 | 3,500.00 |
| 1000 " St. Paul Business Real Estate Assoc. | 100,000.00 | 4,500.00 |
| 820 " Trimountain Trust, | 72,938.50 | 3,642.50 |
| 2000 " Western Real Estate Trust, | 207,750.00 | 14,000.00 |
| | <u>\$1,344,555.10</u> | <u>\$50,806.19</u> |

Sundry Stocks.

| | | |
|--|---------------------|--------------------|
| 1044 shares Edison Elec. Illum. Co., Boston, Mass., | \$206,900.65 | \$9,664.08 |
| 500 " Massachusetts Gas Companies, pref'd, | 37,169.52 | 2,000.00 |
| 20 " Washington Water Power Co., | 2,000.00 | 80.00 |
| | <u>\$246,070.17</u> | <u>\$11,744.08</u> |

SUMMARY :

| | | |
|--|------------------------|-----------------------|
| Mortgages and Notes, | \$1,965,676.37 | \$81,588.51 |
| Public Funds, | 474,530.00 | 4,768.05 |
| Railroad Bonds, | 6,497,405.71 | 297,447.01 |
| Traction Bonds, | 1,969,171.73 | 94,043.45 |
| Sundry Bonds, | 7,688,003.23 | 340,440.75 |
| Railroad Stocks, | 1,847,187.43 | 90,952.25 |
| Manufacturing and Tel. Stocks, | 595,776.41 | 67,897.75 |
| Real Estate Trust Stocks, | 1,344,555.10 | 50,806.19 |
| Sundry Stocks, | 246,070.17 | 11,744.08 |
| Total, Exhibit A, | <u>\$22,628,376.15</u> | |
| Total, Exhibit B, | | <u>\$1,038,688.04</u> |

SCHEDULE 3

LAND AND BUILDINGS—GENERAL INVESTMENT

June 30, 1917

| Real Estate in Boston. | Principal. | Net Income. |
|--|-----------------------|---------------------|
| Adams Estate, Washington Street, | \$250,000.00 | \$16,197.65 |
| Amory Estate, Franklin Street, | 206,018.80 | 5,230.82 |
| Cowdin Estate, Haymarket Square, | 36,000.00 | 2,312.26 |
| Estate, 128 to 186 Federal Street, | 499,766.49 | 21,483.41 |
| Estate, 364 and 366 Washington St., | 208,452.97 | 3,182.37 |
| Estate, 31 and 33 Otis and 112 Arch Streets, . . | 152,789.65 | 6,099.25 |
| Estate, 16 to 18 Union and 3 to 11 Friend Streets (sold during year), . . . . . | ..... | 1,043.47 |
| Faneuil Hall Square Estate, | 197,047.80 | 8,328.84 |
| Gerrish Block, Blackstone and North Streets, . . | 192,875.75 | 10,035.30 |
| Gray Estate, Washington Street, | 1,018,661.60 | 104,288.46 |
| Jaynes Estate, Washington and Hanover Streets, | 202,000.00 | 12,000.00 |
| Lowell Estate, Washington Street, | 494,368.91 | 29,516.67 |
| Old Boston Music Hall Estate, | 580,035.01 | 24,269.39 |
| Townsend Estate, Hawkins Street, | 44,419.49 | 1,437.62 |
| Webb Estate, Washington Street, | 164,604.79 | 19,047.21 |
| Estate, 14 and 20 Franklin St., | 64,803.61 | 2,051.46 |
| Estate, 17 and 19 Washington Street, North, . . | 46,500.00 | 505.64 |
| Estate, 20 and 21 Washington Street, North, . . | 60,592.85 | 2,567.67 |
| Estate, 175-183 Summer Street, | 271,457.85 | 2,838.80 |
| Total, Exhibit A, | <u>\$4,685,390.57</u> | |
| Total, Exhibit B, | | <u>\$272,435.59</u> |

ABBREVIATIONS USED IN SCHEDULE 4, FUNDS AND GIFTS

The abbreviations G. Ex. and Sp. Ex. following the name of a school or department, indicate "general expense," and "special expense" respectively for that school or department. A memorandum of other abbreviations follows.

| | | | |
|------------------|---|------------------|--|
| Ap. Chap. | Appleton Chapel | Fogg Mus. | Fogg Museum |
| Arch. Fell. | School of Architecture Fellowship | Ger. Mus. | Germanic Museum |
| Arch. Sch. | School of Architecture Scholarship | Gift Cap. | Gift for Capital |
| A. A. | Arnold Arboretum | Gr. Bus. L. F. | Graduate School Business Administration Loan Funds |
| B. I. | Bussey Institution | Gr. Sch. Med. | Graduate School of Medicine |
| B. H. Obs. | Blue Hill Meteorological Observatory | Gray Herb. | Gray Herbarium |
| Bot. Garden | Botanic Garden | Law L. F. | Law Loan Funds |
| Bot. Mus. | Botanical Museum | Law Sch. | Law Scholarships |
| Cap. Gain | Gain in Sale of Investments | Med. Fell. | Medical Fellowships |
| Cap. Loss. | Loss in Sale of Investments | Med. Sal. | Medical Salaries |
| Coll. B. F. | College Beneficiary Funds | Med. Sch. | Medical Scholarships |
| Coll. Fell. | College Fellowships | Min. Sch. .. | School of Mining Scholarship |
| Coll. Sal. | College Salaries | M. C. Z. | Museum of Comparative Zoölogy |
| Coll. Sch. | College Scholarships | Obs. | Astronomical Observatory. |
| Div. B. F. | Divinity Beneficiary Funds | Peab. Mus. | Peabody Museum |
| Div. Sal. | Divinity Salaries | P. M. Fell. | Peabody Museum Fellowships |
| Div. Sch. | Divinity Scholarships | Ph. Br. Ex. .. | Phillips Brooks House Expenses |
| Engin. Sch. .. | Engineering Scholarships | Sem. Mus. | Semitic Museum |
| F. & G. Sp. .. | Non-departmental Funds and Gifts, Schedule 36 | Sum. Sch. | Summer Schools |
| | | U. Ex. | University Expense |
| | | U. Sal. | University Salaries |

FUNDS AND GIFTS

June 30, 1917

[The date following the title of a Fund shows the year of its establishment.]

UNIVERSITY FUNDS

| | <i>Principal, July 1, 1916</i> | <i>Receipts</i> | <i>Expenditures</i> | <i>Suspense</i> | <i>Principal, June 30, 1917. Totals</i> |
|-------------------------------------|------------------------------------|--------------------------|------------------------|-----------------|---|
| Charles Allen (1913), | \$3,000.00 | Interest . . . 154.50 | U. Ex. . . . 154.50 | ..... | \$3,000.00 |
| Anonymous (1910), | 184,019.39 | " . . . 5,564.37 | Annuities . . 5,600.00 | ..... | 183,280.76 |
| | | | Cap. Loss . . 708.00 | ..... |  |
| Anonymous No. 2 (1913), | 28,718.70 | " . . . 1,115.26 |  | ..... |  |
| | | Other receipts 150.00 | F. & G. Sp. . 71.75 | ..... | 29,912.21 |
| Anonymous No. 3 (1916), . . . . . | ..... | Gift Cap. . . 387,942.00 |  | ..... |  |
| | | Interest . . . 13,542.98 |  | ..... | 401,484.98 |
| Anonymous No. 4 (1916), . . . . . | ..... | Gift Cap. . . 200,000.00 |  | ..... |  |
| | | Interest . . . 5,587.39 |  | ..... | 205,587.39 |
| Walter F. Baker (1909), | 1,885.18 | " . . . 97.08 | U. Ex. . . . 97.08 | ..... | 1,885.18 |
| William H. Baldwin, Jr. (1906), . . | 2,000.00 | " . . . 103.00 | " . . . 103.00 | ..... | 2,000.00 |
| Band Music (1908), | 1,143.00 | " . . . 58.86 | " . . . 58.86 | ..... | 1,143.00 |
| Caroline M. Barnard Bequest (1911), | 58,513.61 | " . . . 3,018.67 | " . . . 2,418.67 | ..... |  |
| | | | Coll. Sch. . . 600.00 | ..... | 58,513.61 |
| John Barnard (1777), | 666.67 | " . . . 84.35 | U. Ex. . . . 34.35 | ..... | 666.67 |
| J. Arthur Beebe Bequest (1916), . | 226,175.00 | " . . . 18,829.17 | " . . . 18,829.17 | ..... | 226,175.00 |
| Andrew Biegelow (1898), | 4,950.00 | " . . . 254.98 | " . . . 254.98 | ..... | 4,950.00 |
| Stanton Blake (1889), | 5,000.00 | " . . . 257.50 | " . . . 257.50 | ..... | 5,000.00 |
| Charlotte F. Blanchard (1891), . | 4,771.33 | " . . . 245.70 | " . . . 245.70 | ..... | 4,771.33 |
| Samuel D. Bradford (1866), . . . | 5,250.00 | " . . . 270.38 | " . . . 270.38 | ..... | 5,250.00 |

| | | | | | | | |
|--|------------|----------------|------------|--------------------------|-----------|-------|----------------|
| Martin Brimmer (1907), | 50,000.00 | Interest . . . | 2,575.00 | U. Ex. . . . | 2,575.00 | ..... | 50,000.00 |
| James C. Carter (1906), | 100,000.00 | " . . . | 5,150.00 | " . . . | 5,150.00 | ..... |  |
| John W. Carter (1898), | 12,500.00 | " . . . | 207.50 | Deficit Eng. & Min. Sch. | 49,104.88 | ..... | 50,895.12 |
| Fund of the Class of 1842 (1908), | 148.46 | " . . . | 7.62 | U. Ex. . . . | 207.50 | ..... | 12,500.00 |
| Twenty-fifth Anniversary Funds: |  |  |  |  |  | ..... | 156.08 |
| Class of 1861 (1906), | 114,899.19 | " . . . | | Coll. Sal. . . | 5,917.30 | ..... | 114,899.19 |
| Class of 1862 (1907), | 95,695.18 | " . . . | | " . . . | 5,003.02 | ..... |  |
| Class of 1883 (1908), | 95,552.77 | Gift Cap. . . | 4,958.11 | " . . . | 5,003.02 | ..... | 100,000.00 |
| Class of 1888 (1913), | 98,000.00 | Interest . . . | 2,103.00 | Coll. G. Ex. . | 4,958.11 | ..... | 97,655.77 |
| Class of 1889 (1914), | 100,000.00 | " . . . | 4,761.50 | " . . . | 4,761.50 | ..... | 98,000.00 |
| Class of 1890 (1915), | 82,500.00 | " . . . | 5,095.00 | " . . . | 5,095.00 | ..... | 100,000.00 |
| Class of 1891 (1916), | 100,000.00 | Gift Cap. . . | 3,500.00 | " . . . | 4,859.89 | ..... | 86,000.00 |
| Class of 1892 (1917), . . . . . | ..... | Interest . . . | 5,150.00 | " . . . | 5,150.00 | ..... | 100,000.00 |
| Class of 1894 (1916), . . . . . | ..... | Gift Cap. . . | 100,000.00 | " . . . | ..... | ..... | 100,000.00 |
| Class of 1896 (1917), . . . . . | ..... | " . . . | 13,700.00 | " . . . | ..... | ..... | 14,108.96 |
| Class of 1899 (1916), . . . . . | ..... | Interest . . . | 408.96 | " . . . | ..... | ..... | 15,065.61 |
| John Coggan (1852), | 1,500.00 | Gift Cap. . . | 15,000.00 | " . . . | ..... | ..... | 26,065.84 |
| Edwin Conant (1914), | 1,061.60 | Interest . . . | 65.61 | U. Ex. . . . | 77.25 | ..... | 1,500.00 |
| Amounts carried forward, \$1,822,950.08 | | " . . . | 25,000.00 | " . . . | 54.69 | ..... | 1,061.60 |
| Amounts carried forward, \$1,822,950.08 | | " . . . | 1,065.84 | " . . . | ..... | ..... | \$2,046,528.30 |

UNIVERSITY FUNDS (continued)

| | <i>Principal, July 1, 1916</i> | <i>Receipts</i> | <i>Expenditures</i> | <i>Suspense</i> | <i>Principal, June 30, 1917</i> | <i>Totals</i> |
|---|------------------------------------|-------------------------------|---------------------|-----------------|-------------------------------------|---------------|
| Amounts brought forward, \$1,322,950.08 | 10,245.13 | | | | \$2,046,528.80 | |
| Edward Erwin Coolidge (1906), | | Interest 764.12 | | | | |
| | | Loans repaid 755.00 | | | | |
| | | Interest 7.98 | U. Sal. . . . . | ..... | 11,764.25 | |
| Thomas Cotton (1727), | 155.22 | | | 7.75 | 155.45 | |
| John Cowdin (1888), | 38,835.06 | | U. Ex. | 1,742.50 | 38,835.06 | |
| George B. Dorr (1882), | 115,966.56 | | | 1,923.78 | 115,966.56 | |
| George Draper (1892), | 48,458.50 | | | 803.43 | 48,458.50 | |
| R. H. Eddy (1901), | 56,788.00 | | | 941.58 | 56,788.00 | |
| Harvard Ellis (1895), | 101,225.49 | | | 5,218.09 | 101,225.49 | |
| Richard W. Foster (1905), | 20,918.57 | | | 1,077.83 | 20,918.57 | |
| John Davis Williams French | | | | | | |
| (1901), | 5,322.09 | | | 88.24 | 5,322.09 | |
| Gore (1834), | 20,571.18 | | | 1,059.41 | 20,571.18 | |
| John C. Gray (1881), | 25,000.00 | | | 414.75 | 25,000.00 | |
| Harvard Endowment (1917), . . . | ..... | Gift Cap. 200,000.00 | | | | |
| | | Interest 1,453.28 | Coll. G. Ex. . . . | 1,162.63 | 200,290.65 | |
| Walter Hastings (1888), | 20,000.00 | | U. Ex. | 907.73 | 20,000.00 | |
| Henry L. Higginson (1906), . . . | 100,000.00 | | | 8,329.80 | 100,000.00 | |
| Thomas Hollis (for Treasurer) | | | | | | |
| (1721), | 520.00 | | | | 520.00 | |
| Thomas Hubbard (1774), | 1,000.00 | | | 26.78 | 1,000.00 | |
| Nathaniel Hulton (1695), | 444.44 | | | 51.50 | 444.44 | |
| Thomas Hutchinson (1739), . . . | 238.83 | | | 22.87 | 238.83 | |
| George Baxter Hyde (1895), . . . | 5,000.00 | | | 12.00 | 5,000.00 | |
| Insurance and Guaranty (1860), . . | 4,000.00 | | | 257.50 | 4,000.00 | |
| | | | | | | |

| | | | | | | | |
|--|------------|----------------------------|------------|------------------|-----------|-------|----------------|
| Leonard Jarvis (1869), | 16,871.63 | Interest . . . | 868.91 | U. Ex. . . . | 868.91 | ..... | 16,871.63 |
| Henry P. Kidder (1894), | 10,000.00 | " | 515.00 | " | 515.00 | ..... | 10,000.00 |
| Lawrence Scientific School Loans re- paid Fund, | 13,722.26 | " | 486.80 | | | | |
| | | Loans repaid | 1,722.87 | Eng. & Min. B.F. | 425.00 | ..... | 15,456.98 |
| Joseph Lee (1802), | 10,000.00 | Interest . . . | 165.80 | U. Ex. . . . | 165.80 | ..... | 10,000.00 |
| Morris Longstreth (1916), | 8,946.97 | " | 525.50 | | | | |
| | | Gift Cap. . . | 15,064.04 | " | 525.50 | ..... | 28,411.01 |
| Susan B. Lyman Loan Fund (L.S.S.), | 571.49 | Interest . . . | 29.41 | | | | |
| | | Trans. fr. Fd. | 102.81 | | | | 708.71 |
| Theodore Lyman (1898), | 10,000.00 | Interest . . . | 515.00 | U. Ex. . . . | 515.00 | ..... | 10,000.00 |
| Robert C. McIlwain Bequest (1917), | ..... | Gift Cap. . . | 4,750.00 | | | | |
| | | Interest . . . | 49.59 | " | 49.59 | ..... | 4,750.00 |
| Gordon McKay Endowment (1909), 2,260,008.89 | | " | 116,159.99 | | | | |
| | | Gift Cap. . . | 193,582.11 | Coll. Sal. . . | 28,582.18 | | |
| | | | | Arch. G. Ex. | 8,768.89 | | |
| | | | | Eng. School | 66,418.58 | | |
| | | | | Gr. Bus. Sch. | 3,000.00 | | |
| | | | | B. I. G. Ex. | 18,895.39 | | |
| | | | | F. & G. Sp. . | 1,000.00 | ..... | 2,453,591.00 |
| Henry T. Morgan (1883), . . . . . | ..... | Repay'm't of Advance of | | | | | |
| | | 1909-10 . | 24,585.16 |  |  | ..... | 24,585.16 |
| Israel Munson (1844), | 15,750.00 | Interest . . . | 811.13 | U. Ex. . . . | 811.13 | ..... | 15,750.00 |
| Henry S. Nourse (1904), | 52,400.00 | " | 2,698.60 | " | 1,679.02 | | |
| | | | | Annuities . . | 1,019.58 | ..... | 52,400.00 |
| Francis E. Parker (1886), | 113,817.44 | " | 1,888.08 | U. Ex. . . . | 1,888.08 | ..... | 118,817.44 |
| Amounts carried forward, \$4,404,122.38 | | | | | | | \$5,569,358.75 |

UNIVERSITY FUNDS (continued)

| | Principal, July 1, 1916 | Receipts | Expenditures | Suspense June 30, 1917 | Principal, June 30, 1917 |
|---|----------------------------|-----------------------------|-----------------------|------------------------|-----------------------------|
| Amounts brought forward, \$4,404,122.33 | | | | | \$5,569,358.75 |
| George F. Parkman (1909), | 4,005.59 | Interest \$206.31 | U. Ex. | 206.31 | \$4,005.59 |
| William Perkins (1898), | 30,000.00 | " 1,545.00 | " | 1,545.00 | 30,000.00 |
| Henry L. Pierce (1898), | 50,000.00 | " 2,575.00 | Lib. G. Ex. | 2,575.00 | 50,000.00 |
| Henry L. Pierce (Residuary) (1898), | 157,198.14 | " 7,107.07 | Lib. G. Ex. | 2,869.02 | |
| | | | M. C. Z. | 4,789.05 | 157,198.14 |
| President's (1898), | 64,465.65 | " 8,320.00 | U. Sal. | 8,224.95 | 64,560.70 |
| Retiring Allowance (1879), | 397,972.68 | " 20,495.61 | F. & G. Sp. | 18,046.11 | 405,422.18 |
| Riverside (1903), | 11,000.00 | ..... | ..... | ..... | 11,000.00 |
| Ezekiel Rogers (1701), | 3,535.00 | " 182.05 | U. Ex. | 182.05 | 3,535.00 |
| Daniel Russell (1679), | 1,514.00 | " 77.97 | " | 77.97 | 1,514.00 |
| John L. Russell (1889), | 28,370.03 | " 1,203.55 | " | 1,203.55 | 28,370.03 |
| Mary R. Searle (1903), | 1,877.28 | " 96.67 | Fogg M.Sp.Ex. | 113.50 | 1,860.45 |
| Isaac Sweetser (1894), | 46,918.13 | " 2,416.02 | U. Ex. | 2,416.02 | 46,918.13 |
| Seth Turner (1883), | 5,000.00 | " 257.50 | " | 257.50 | 5,000.00 |
| William F. Weld (1898), | 100,000.00 | " 1,658.00 | " | 1,658.00 | 100,000.00 |
| Gifts for trees: | | | | | |
| E. B. Adams, . . . . . | ..... | Gift 250.00 | U. Sp. Ex. | 100.00 | 150.00 |
| Anonymous, . . . . . | ..... | " . . . . . 820.97 | " | 820.97 | ..... |
| Class of 1893, | 50.00 | ..... | ..... | ..... | 50.00 |
| " 1898, | 100.00 | ..... | " . . . . . | 100.00 | ..... |
| A. C. Coolidge, | 250.00 | ..... | " . . . . . | 100.00 | 150.00 |
| Mrs. Edward F. Greene, | 25.00 | ..... | " . . . . . | ..... | 25.00 |
| Arthur H. Lea, . . . . . | ..... | " . . . . . 1,475.91 | " | 1,475.91 | ..... |
| Robert L. McCook, | 666.81 | Interest 26.72 | " | 108.11 | 590.42 |

COLLEGE FUNDS (continued)

| | <i>Principal, July 1, 1916</i> | <i>Receipts</i> | <i>Expenditures</i> | <i>Suspense</i> | <i>Principal, June 30, 1917</i> | <i>Totals</i> |
|---|------------------------------------|-----------------|---------------------|-----------------|-------------------------------------|-----------------------|
| Amounts brought forward, \$5,542,018.16 | 7,179.37 | Interest . . . | \$369.72 | Coll. Sp. Ex. | \$328.37 | Dr. \$458.65 7,179.37 |
| Classical Publication Fund of the Class of 1856 (1888), | | " . . . | 5,338.95 | Coll. Sal. . . | 5,338.95 | 108,669.41 |
| Twenty-fifth Anniversary Funds: | | " . . . | 5,155.15 | Coll. G. Ex. . | 5,155.15 | 100,099.91 |
| Class of 1880 (1905), | 108,669.41 | " . . . | 5,759.76 | " " " . . | 5,759.76 | 111,840.00 |
| Class of 1884 (1909), | 100,099.91 | " . . . | 5,150.00 | " " " . . | 5,150.00 | 100,000.00 |
| Class of 1885 (1910), | 111,840.00 | " . . . | 5,150.00 | " " " . . | 5,150.00 | 100,000.00 |
| Class of 1886 (1911), | 100,000.00 | " . . . | 20.45 | " " " . . | 20.45 | 376.22 |
| Class of 1887 (1912), | 100,000.00 | " . . . | 7,757.86 | " Sal. . . | 7,757.86 | 150,637.54 |
| Class of 1883 Special Fund (1908), . . | 355.77 | " . . . | 16,748.06 | " G. Ex. . | 16,748.06 | 320,878.84 |
| Class Subscription (1870), | 150,637.54 | " . . . | 78.02 | Gray Herb. . | 78.02 | 1,515.00 |
| Edward W. Codman (1905), | 320,878.84 | " . . . | | | | |
| Helen Collamore Bequest, Gray Herbarium (1916), | 1,515.00 | " . . . | | | | |
| T. Jefferson Coolidge, for Re- search in Physics (1901), | 59,805.25 | " . . . | 8.60 | | | |
| | | Gift Cap. . . | 1,000.00 | Cap. Loss . . | 43,887.62 | |
| | | " Income . . | 5,500.00 | Coll. Sp. Ex. | 4,860.96 | 18,065.27 |
| George G. Crocker (1913), | 5,000.00 | Interest . . . | 257.50 | " G. " . . | 257.50 | 5,000.00 |
| Ernest B. Dane in Physics (1912), . . | 58,808.88 | " . . . | 2,132.33 | " Sp. " . . | 2,939.77 | 52,500.94 |
| Paul Dudley (1761), | 4,758.37 | " . . . | 245.04 | F. & G. Sp. . | 116.00 | 4,887.41 |
| Alexis Irenée Du Pont (1917), . . . . | ..... | Gift Cap. . . | 98,000.00 | ..... | ..... | 98,000.00 |
| Eaton Professorship (1908), | 114,598.72 | Interest . . . | 5,901.85 | Coll. Sal. . . | 5,500.00 | 115,000.57 |
| Eliot Professorship (1814), | 21,619.50 | " . . . | 1,118.43 | " " " . . | 1,118.43 | 21,619.50 |

| | | | | | | | |
|--|------------|----------------|-----------|----------------|----------|-----------|--------------------------------------|
| Eliot Professorship (Jonathan Phillips's gift) (1854), | 10,000.00 | Interest . . . | 350.00 | Coll. Sal. . . | 350.00 | ..... | 10,000.00 |
| Erving Professorship (1791), | 8,500.01 | " . . . | 180.25 | " . . . | 180.25 | ..... | 8,500.01 |
| Fisher " (1884), | 41,703.76 | " . . . | 2,147.76 | " . . . | 2,147.76 | ..... | 41,703.76 |
| Henry Flynt (1760), | 435.48 | " . . . | 22.45 | " . . . | 21.80 | ..... | 436.13 |
| Fund for Permanent Tutors (1796), | 16,240.38 | " . . . | 886.36 | " . . . | 886.36 | ..... | 16,240.38 |
| Fund for Religious Services (1887), | 1,033.57 | " . . . | 53.25 | Ap. Chap. . . | 53.25 | ..... | 1,033.57 |
| George A. Gardner (1892), | 5,503.96 | " . . . | 283.45 | Coll. Sp. Ex. | 316.34 | Dr. 28.93 | 5,500.00 |
| Wolcott Gibbs Memorial Endowment (1912), | 24,682.60 | " . . . | 1,971.17 | | | | |
| | | Other receipts | 682.64 | " . . . | 1,577.83 | ..... | 25,008.58 |
| Godkin Lectures (1903), | 17,742.37 | Interest . . . | 913.76 |  | ..... | ..... | 18,656.63 |
| Gospel Church (1868), | 8,841.60 | " . . . | 455.36 | " Sal. . . | 227.68 | ..... | 9,069.28 |
| Asa Gray Memorial (1898), | 33,011.00 | " . . . | 1,701.77 |  |  | ..... |  |
| | | Gift Cap. . . | 100.00 | Gray Herb. . | 1,701.77 | ..... | 33,111.00 |
| Asa Gray Professorship of Systematic Botany (1897), | 21,451.25 | Interest . . . | 1,104.73 | " . . . | 1,104.73 | ..... | 21,451.25 |
| Gurney (1888), | 200,096.86 | " . . . | 10,305.00 | Coll. Sal. . . | 9,806.00 | ..... | 200,096.86 |
| | | | | Annuity . . . | 500.00 | ..... |  |
| George Silsbee and Ellen Sever Hale (1904), | 6,039.05 | " . . . | 311.01 | Trans. to Lib. | 311.01 | ..... | 6,039.05 |
| Harvard Foundation for Exchanges with French Universities (1912), | 82,414.57 | " . . . | 1,669.37 |  | ..... | ..... | 84,083.94 |
| Harvard Oriental Series (1899), | 15,000.00 | " . . . | 772.50 |  |  | ..... |  |
| | | Sale paper . | 14.52 | Coll. Sp. Ex. | 772.50 | ..... | 15,014.52 |
| Herbarium (1865), | 20,655.91 | Interest . . . | 1,063.78 | Gray Herb. . | 1,063.78 | ..... | 20,655.91 |
| Hersey Professorship (1772), | 20,217.08 | " . . . | 1,041.18 | Coll. Sal. . . | 624.71 | ..... |  |
| | | | | Med. " . . | 416.47 | ..... | 20,217.08 |
| Amounts carried forward, \$7,275,348.67 | | | | | | | \$3,038,144.98 \$6,474,927.97 |

COLLEGE FUNDS (continued)

| | Principal, July 1, 1916 | Receipts | Expenditures | Suspense June 30, 1917 | Principal, June 30, 1917 | Totals |
|--|----------------------------|---------------------------|---------------------------|------------------------|-----------------------------|----------------|
| Amounts brought forward, \$7,275,348.67 | | | | | \$2,088,144.98 | \$6,474,927.97 |
| Hersey Professorship (Thomas Lee's gift) (1856), | 21,744.18 | Interest . . . \$1,119.82 | Coll. Sal. . . \$1,119.82 | ..... | 21,744.18 | |
| Richard Hodgson Memorial (1912), | 13,526.04 | " . . . 696.59 | " Sp. Ex. 738.40 | ..... | 13,494.23 | |
| Albert Fairchild Holden Bequest (1917), . . . . . | ..... | Gift Cap. . . 6,100.00 | | | | |
| | | Interest . . . 2.52 | Coll. Sp. Ex. 6,100.00 | ..... | 2.52 | |
| Rose Hollingsworth (1916), | 500.00 | " . . . 25.75 | Gray Herb. . . 25.75 | ..... | 500.00 | |
| Hollis Professorship of Mathematics, | 8,747.38 | " . . . 192.97 | Coll. Sal. . . 192.97 | ..... | 8,747.38 | |
| Composed of these Funds: — | | | | | | |
| Thomas Brattle (1713), | | | | | | |
| William Dummer (1762), | | | | | | |
| Daniel Hanchman (1758), | | | | | | |
| Thomas Hollis (1726), | | | | | | |
| John E. Hudson Professorship in Archaeology (1917), . . . . . | ..... | Gift Cap. . . 145,738.50 | | | | |
| | | Interest . . . 3,351.67 | " . . . 3,351.67 | ..... | 145,738.50 | |
| Ingersoll Lecture (1894), | 7,216.25 | " . . . 371.62 | F. & G. Sp. . . 4.34 | ..... | 7,588.53 | |
| Gardiner M. Lane Bequest (1914), | 1,431.92 | " . . . 73.75 | ..... | ..... | 1,505.67 | |
| Abbott Lawrence (1859), | 61,536.43 | " . . . 3,169.10 | Coll. Sal. . . 1,584.55 | ..... | 61,536.43 | |
| | | | Engin. " . . 1,584.55 | ..... |  |  |
| James Lawrence (1865), | 50,875.00 | " . . . 2,594.81 | Coll. " . . 1,297.16 | ..... | 50,875.00 | |
| | | | Engin. " . . 1,297.15 | ..... |  |  |
| George H. Leatherbee Lecture Fund (1913), | 52,124.70 | " . . . 2,866.00 | | | | |
| | | Cap. Gain . . 189.00 | ..... | ..... | 55,149.70 | |

| | | | | | | | |
|--|------------|----------------|-----------|----------------|-----------|-------|----------------|
| Lectures on Political Economy (1889), . . | 13,989.18 | Interest . . . | 717.86 | F. & G. Sp. . | 250.00 | ..... | 14,407.04 |
| Lee Fund for Reading (1863), . . . | 15,796.97 | " . . . | 818.55 | Coll. Sal. . . | 813.55 | ..... | 15,796.97 |
| Henry Lee Professorship (1900), . . | 110,229.21 | " . . . | 5,676.79 | " " . . | 3,308.38 | ..... | 112,697.67 |
| Solomon Lincoln Bequest (1911), . . | 11,518.87 | " . . . | 598.28 | | | | |
| | | Gift | 25.00 | | | | |
| | | Sales | 76.21 | Coll. Sp. Ex. | 248.54 | ..... | 11,964.77 |
| Calvin Stoughton Locke (1915), . . | 1,000.00 | Interest . . . | 51.50 | " " . . | 51.50 | ..... | 1,000.00 |
| Morris Loeb Bequest (1914), . . . | 493,869.54 | " . . . | 24,416.05 | Annuity . . | 21,818.38 | ..... | 496,467.21 |
| Joseph Lovering for Physical Research (1891), | | | | | | | |
| Lowell Fund for a Botanic Garden (1882) (formerly Professorship of Natural History, 1805), | 8,321.97 | " . . . | 428.58 | Coll. Sp. Ex. | 987.26 | ..... | 7,753.29 |
| Woodbury Lowery Memorial (1910), | 69,074.76 | " . . . | 3,557.36 | Bot. Garden . | 3,557.36 | ..... | 69,074.76 |
| Arthur T. Lyman (1904), | 20,389.14 | " . . . | 1,050.03 | Coll. Fell. . | 200.00 | ..... | 21,239.17 |
| Charles Nicholas McCall Fund (1912), | 60,000.00 | " . . . | 3,090.00 | " Sal. . . | 3,090.00 | ..... | 60,000.00 |
| | 37,231.25 | " . . . | 1,917.40 | " " . . | 1,917.40 | | |
| | | | | Deficit Univ. | | | |
| McLean Professorship (1834), . . . | 43,062.93 | " . . . | 2,217.74 | Coll. & Lib. | 7,503.79 | ..... | 29,727.46 |
| Matchett Fund (1913), | 300,000.00 | " . . . | 16,813.33 | " Sal. . . | 2,217.74 | ..... | 43,062.93 |
| Emily H. Moir Bequest (1914), . . | 45,401.00 | Gift Cap. . . | 25,000.00 | " G. Ex. . | 15,813.33 | ..... | 325,000.00 |
| Music Building Maintenance Fund (1911), | 53,103.22 | Interest . . . | 2,338.10 | " " . . | 2,338.10 | ..... | 45,401.00 |
| Music Department (1903), | 316.56 | " . . . | 2,784.80 | " Sp. " . | 1,877.20 | ..... | 53,960.82 |
|  |  |  | ..... |  | ..... | ..... | 316.56 |
| Amounts carried forward, \$8,770,805.12 | | | | | | | \$8,702,386.72 |
| | | | | | | | \$6,474,927.97 |

| COLLEGE FUNDS (continued) | | | | |
|--|------------------------------------|---------------------------|-------------------------|-------------------------------------|
| | <i>Principal, July 1, 1916</i> | <i>Receipts</i> | <i>Expenditures</i> | <i>Principal, June 30, 1917</i> |
| Amounts brought forward, \$8,770,805.12 | | | | |
| James J. Myers (1916), | 100,091.65 | Interest . . . \$5,819.16 | | \$8,703,886.72 |
| John Newgate (1650), | 333.38 | Cap. Gain . . 3,772.36 | Annuity . . \$7,000.00 | 102,683.17 |
| William Belden Noble Lectures (1898), | 30,328.96 | Interest . . . 17.15 | Div. G. Ex. . 17.15 | 333.38 |
| Trenor L. Park Bequest (1911), . . | 21,914.79 | " . . . 1,561.94 | | |
| Francis Greenwood Peabody Fund (1905), | 109,875.56 | Sales 5.48 | F. & G. Sp. . 1,410.98 | 80,485.45 |
| | | Interest . . . 1,128.62 | Coll. G. Ex. . 1,128.62 | 21,914.79 |
| Daniel H. Peirce (1876), | 15,047.73 | " . . . 5,858.61 | " Sal. . . 2,750.00 | |
| Perkins Professorship (1841), . . . | 22,071.00 | " . . . 774.97 | " Sp. Ex. . 1,487.87 | 111,816.30 |
| Jonathan Phillips (1861), | 31,500.00 | " . . . 1,136.66 | " " . . 697.47 | 15,125.23 |
| Physical Laboratory Endow'm't (1881), | 75,290.00 | " . . . 1,622.25 | " G. Ex. . 1,622.25 | 22,071.00 |
| Plummer Foundation (1854), | 26,296.21 | " . . . 3,877.43 | " Sp. " . 4,167.43 | 31,500.00 |
| Pope Professorship (1868), | 52,500.00 | " . . . 1,354.24 | Div. Sal. . . 1,354.24 | 75,000.00 |
| Sarah E. Potter Endowment (1907), | 201,490.38 | " . . . 2,703.75 | Coll. " . . 2,703.75 | 26,296.21 |
| Professorship of Hygiene (1899), . . . | 250,632.80 | " . . . 10,376.74 | Gray Herb. . 10,376.74 | 52,500.00 |
| | | " . . . 13,862.60 | Coll. Sal. . . 6,056.45 | 201,490.38 |
| " " (1902), | 58,866.31 | " . . . 3,091.60 | Annuities . . 6,000.00 | |
| " " (1908), | 61,184.92 | " . . . 3,151.08 | " | 251,488.95 |
| Professorship of Latin-American His- tory and Economics (1913), | 125,771.69 | " . . . 6,477.26 | Coll. Sal. . . 2,000.00 | 61,897.91 |
| | | | " Schol. . . 150.00 | 64,385.95 |
| | | | " Sp. Ex. . 509.44 | |
| | | | Lib. Books . 4,170.66 | 125,418.85 |

| | | | | | | | | | |
|---|--------------|----------------|------------|-----------------|------------|--|--|----------------|----------------|
| General Publication Fund (1912), . . | 5,978.08 | Interest . . . | 307.87 | | | | | | |
| Nelson Robinson, Jr. Additional (1906), | 185,410.98 | Sales . . . | 2,122.04 | Coll. Sp. Ex. | 1,571.41 | | | 6,886.58 | |
| Eliza O. and Mary P. Ropes (1909), | 121,864.24 | Interest . . . | 586.17 | " Sal. . . | 1,000.00 | | | | |
| | | " | | " Sp. Ex. | 1,485.81 | | | 188,511.84 | |
| Rumford Professorship (1819), . . . | 62,565.99 | " | 6,181.78 | " Sal. . . | 5,000.00 | | | | |
| John L. Russell (1889), | 2,000.00 | " | 3,222.15 | Peab. M. G. Ex. | 1,181.73 | | | 121,864.24 | |
| | | " | 102.00 | Coll. Sal. . . | 8,222.15 | | | 62,565.99 | |
| George William Savin (1890), . . | 7,380.81 | " | 380.07 | Bot. Garden. | 25.75 | | | 2,000.00 | |
| Robert W. Sayles (1906), | 5,074.11 | " | 261.81 | Gray Herb. . | 77.25 | | | 7,760.38 | |
| Shaler Memorial (1907), | 85,798.57 | " | 1,843.65 | | | | | 5,269.55 | |
| Smith Professorship (1816), | 28,139.88 | " | 1,191.71 | Coll. Sp. Ex. | 65.87 | | | 86,072.72 | |
| William M. Spackman (1905), . . | 2,500.00 | " | 138.75 | " " | 1,569.50 | | | 96,072.72 | |
| Henry Baldwin Stone Memorial (1914), | 58,460.00 | " | 3,300.00 | " Sal. . . | 1,191.71 | | | 28,139.88 | |
| Teachers' Endowment (1905), | 2,053,520.58 | " | 104,160.07 | " G. Ex. . | 128.75 | | | 2,500.00 | |
| | | Gift Cap. . . | 53.33 | " " | 3,300.00 | | | 58,460.00 | |
| John E. Thayer (1885), | 16,453.21 | Gift Income. | 400.00 | " Sal. . | 102,560.07 | | | | |
| | | Interest . . . | 847.38 | Sem. Mus. . | 2,000.00 | | | 2,053,573.91 | |
| Henry Warren Torrey (1890), . . | 10,000.00 | Sales | 2,318.51 | F. & G. Sp. . | 3,127.45 | | | 16,491.60 | |
| | | Interest . . . | 515.00 | | | | | | |
| Unknown Memorial (1898), | 100,000.00 | Sales | 583.87 | Coll. Sp. Ex. | 198.68 | | | Cr. \$900.19 | 10,000.00 |
| | | Interest . . . | 5,150.00 | " Sal. . . | 3,350.00 | | | | |
| Henry Villard (1902), | 50,000.00 | " | 829.00 | " Sp. Ex. | 1,800.00 | | | 100,000.00 | |
| | | " | | " Sal. . . | 829.00 | | | 50,000.00 | |
| Amounts carried forward, \$12,689,146.35 | | | | | | | | \$7,631,240.88 | \$6,474,927.97 |

COLLEGE FUNDS (continued)

| | <i>Principal, July 1, 1916</i> | <i>Receipts</i> | <i>Expenditures</i> | <i>Suspense</i> | <i>Principal, June 30, 1917</i> | <i>Totals</i> |
|--|------------------------------------|---------------------------|---------------------------|-----------------|-------------------------------------|----------------|
| Amounts brought forward, \$12,689,146.35 | | | | | \$7,681,240.88 | \$8,474,927.97 |
| Wales Professorship (1908), | 39,540.20 | Interest . . . \$2,086.31 | Coll. Sal. . . \$1,786.31 | | | |
| | | " . . . 1,214.22 | Trans. to Lib. 300.00 | | 39,540.20 | |
| Samuel Ward (1680), | 23,577.56 | " . . . 6,887.25 | Coll. B. F. . . 585.00 | | 24,206.78 | |
| Cyrus M. Warren (1893), | 6,887.25 | " . . . 120,813.14 | " Sp. Ex. 49.60 | | 7,192.33 | |
| Henry C. Warren (1899), | 120,813.14 | " . . . 10,362.85 | " Sal. . . 3,763.69 | | 121,885.06 | |
| | | " . . . 50,000.00 | " Sp. Ex. 1,886.26 | | 10,896.54 | |
| Sylvester Waterhouse (1896), | 10,362.85 | " . . . 181.26 | Ap. Chap. . . 2,356.78 | | 50,219.27 | |
| Increase Sumner Wheeler (1889), | 50,000.00 | " . . . 9.68 | | | | |
| Jerome Wheelock (1903), | 181.26 | Gift Cap. . . 10.00 | | | 200.89 | |
| Edward Wheelwright (1915), | 50,000.00 | Interest . . . 3,087.11 | | | | |
| | | Gift Cap. . . 25,000.00 | Coll. G. Ex. 3,087.11 | | 75,000.00 | |
| Davies Wilson (1913), | 5,437.50 | Interest . . . 280.06 | " " 280.06 | | 5,437.50 | |
| Morrill Wyman (1915), | 53,816.10 | " . . . 2,771.52 | | | 56,587.62 | \$8,022,407.07 |

GIFTS FOR SPECIAL USE (BALANCES)

| | | | |
|---|--------------------|-----------------------|--------------------|
| Gift for general purposes, | Gift . . . \$50.00 | Coll. G. Ex. 50.00 | |
| Gifts for salaries, | 2,010.00 | Gifts . . . 17,207.55 | Sal. . . 15,990.00 |
| Gift of Evan Randolph, | 375.89 | Gift . . . 100.00 | Sp. Ex. 106.30 |
| Gift for cost of alterations University Hall, | | " . . . 5,000.00 | " " 5,000.00 |
| Dept. of Chemistry — Edward Malinokrodt Gift, | | | .61 |

COLLEGE FUNDS (continued)

| | Principal, July 1, 1916 | Receipts | Expenditures | Suspense June 30, 1917 | Principal, Totals |
|--|----------------------------|--|--------------------------|------------------------|----------------------------|
| Amounts brought forward, \$13,055,281.46 | | | | | \$7,533.18 \$14,497,835.04 |
| Dept. of Economics—Harvard Economic Studies, | 2,334.98 | Sales \$1,772.04 Inc. of W. H. Baldwin, Jr., 1885 Ed. } 287.83 Gift 800.00 | Coll. Sp. Ex. \$6,011.11 | Dr. \$916.36 | |
| Dept. of Economics—Gift for lectures, | 100.00 | ..... | ..... | ..... | 100.00 |
| Dept. of Education -- Gift for Books, | 100.00 | ..... | ..... | ..... | 35.00 |
| Dept. of Education—Furniture for Seminar Room, | 300.00 | ..... | ..... | ..... | ..... |
| Dept. of Education—Gift for Special Services in department library . . . . . | ..... | ..... | ..... | ..... | 50.00 |
| Dept. of English—English A Fund, | 48.89 | ..... | ..... | ..... | 12.81 |
| Dept. of English—Gift for Publishing Expenses | 1,023.16 | ..... | ..... | ..... | 1,023.16 |
| Dept. of Fine Arts—Gifts for Fund for Lecturers, | 86.01 | ..... | ..... | ..... | 31.01 |
| Dept. of Fine Arts—Gift for lantern, | 31.41 | ..... | ..... | ..... | 23.17 |
| Dept. of Fine Arts—Gift for photographs and slides in Fine Arts 1c, | 265.99 | ..... | ..... | ..... | 263.24 |
| Dept. of Fine Arts—Gift for slides and photographs in Drawing Courses, | 119.71 | ..... | ..... | ..... | 119.71 |

| | | | | | | |
|--|-----------------|------------------------|--------------|----------|-------|-----------------------------|
| Dept. of French and other Romance Languages—Dept. Library, | 48.84 | ..... | Coll. Sp Ex. | 20.40 | ..... | 27.94 |
| Dept. of French and other Romance Languages—Gift for Experimental Phonetics, | 78.08 | ..... |  | ..... | ..... | 78.08 |
| Dept. of Geology—Gift for Special Fund in Economic Geology, | 250.00 | Gift 2,000.00 | " " | 2,191.70 | ..... | 89.97 |
| | | Interest . . . 81.87 | " " | 55.91 | ..... | 11.89 |
| Dept. of Geology—Gift for Expenses of Visiting Professors, | 67.50 | ..... | " " | 146.20 | ..... | ..... |
| Dept. of Geology—Gift for Photomicrographic Outfit . . . . . | ..... | Gift 146.20 | " " | 10.00 | ..... | ..... |
| Dept. of Geology—Gift for Salary of Laboratory Assistant . . . . . | ..... | " . . . . 10.00 | " " | ..... | ..... | ..... |
| g Dept. of Government—Gifts for Bureau of Research in Municipal Government, | 827.53 | Interest . . . 15.39 | " " | 2,972.08 | ..... | 1,870.34 |
| | | Gifts 3,500.00 | " " | ..... | ..... | ..... |
| Dept. of Government—Frank Graham Thomson Gift, | 5,030.68 | Interest . . . 150.43 | " " | 3,469.61 | ..... | 6,711.50 |
| | | Gift 5,000.00 | " " | 65.76 | ..... | 28.84 |
| Dept. of Government—Gift for expenses in Government 1, | 94.60 | ..... | " " | ..... | ..... | 23.34 |
| Dept. of Government—Gift for books on School Administration, | 23.34 | ..... |  | ..... | ..... | 916.50 |
| Dept. of Government—Gifts for Publishing Expenses, | 881.25 | Interest . . . 85.25 |  | ..... | ..... | 8.43 |
| Dept. of History—F. P. Bonney Gift, | 8.43 | ..... |  | ..... | ..... | ..... |
| Amounts carried forward, \$18,067,001.35 | \$18,067,001.35 | ..... |  | ..... | ..... | \$18,458.31 \$14,497,385.04 |

COLLEGE FUNDS (continued)

| | Principal, July 1, 1916 | Receipts | Expenditures | Suspense June 30, 1917 | Principal, Totals June 30, 1917 |
|--|----------------------------|-----------------------|----------------------|------------------------|---------------------------------------|
| Amounts brought forward, \$18,067,001.35 | 671.09 | | | | \$18,458.31 |
| Dept. of History — History 1 Book Fd., | | Interest . . . 8.57 | | | |
| | | Sales . . . 468.98 | Coll. Sp. Ex. 455.83 | | 692.81 |
| Dept. of History — Gift Expenses Har- | | | | | |
| vard Commission on Western History, | | | | | |
| Dept. of Mathematics — Gift for Depart- | | Gifts . . . 1,600.00 | " " 1,187.81 | | 462.19 |
| ment, | | | | | |
| | 30.00 | | | | 30.00 |
| Dept. of Mathematics — Mathematics | | | | | |
| Book Fund, | 164.31 | Sales . . . 114.83 | " " 66.52 | | 212.61 |
| Dept. of Mineralogy — Gift J. E. Wolff | | | | | |
| Specimens Mineralogical Museum, . | | Gifts . . . 238.88 | " " 238.88 | | |
| 2 Dept. of Mineralogy — Lease of Green- | | | | | |
| wood Mine, | | Gift . . . 8,000.00 | " " 8,000.00 | | |
| Dept. of Mineralogy — Gift for working | | | | | |
| tourmaline deposit in Maine, | | " " 700.00 | " " 87.24 | | 662.76 |
| Gifts for Dept. of Music, | 28.15 | Interest . . 7.84 | | | |
| | | Gifts . . . 895.00 | | | |
| | | Other receipts 440.75 | " " 1,229.81 | | 71.48 |
| Dept. of Philosophy — Books on | | | | | |
| Eugenics, | 30.65 | | " " 15.16 | | 15.49 |
| Dept. of Philosophy — Philosophical | | | | | |
| Library Gifts, | 287.28 | Gift . . . 200.00 | " " 197.35 | | 289.98 |
| Dept. of Philosophy — Gift for Profes- | | | | | |
| sorship of Japanese Literature, . . | 414.84 | Interest . . 8.28 | | | 428.12 |
| Dept. of Philosophy — Gift for Special | | | | | |
| Use at Psychological Laboratory, . . | 129.57 | | " " 101.91 | | 27.66 |

| | | | | | | | |
|--|----------|----------------------------|----------|---------------|----------|-------|-----------------|
| Dept. of Physics — Gifts for Lectures, Dept. of Physics — Gift for salary of laboratory assistant, . . . . . | ..... | Gifts | 100.00 | Coll. Sp. Ex. | 100.00 | ..... | ..... |
| Department of Sanskrit, . . . . . | ..... | Gift | 1,100.00 | " | 348.85 | ..... | 768.26 |
| | | Interest . . . | 11.61 | " |  | ..... |  |
| Dept. of Semitic — Gift Semitic Library, . | 3,882.19 | " | 188.19 |  |  | ..... | 4,190.09 |
| Dept. of Social Ethics — Anonymous Gift, | 164.54 | Sales | 204.71 |  |  | ..... | 164.54 |
| | | | | | | | |
| | 2,507.82 | Interest . . . | 75.09 | " | 25.00 | ..... | 2,573.66 |
| | | Sales | 15.75 | " |  | ..... |  |
| Dept. of Social Ethics — Gift for Pam- phlet on Cottage Housing | | Gift | 500.00 | " | 288.09 | ..... | 266.91 |
| Dept. of Social Ethics — Gift for fur- nishing rooms, | 51.24 |  | ..... |  | ..... | ..... | 51.24 |
| Dept. of Social Ethics — Library Gifts, Dept. of Zoology — Bermuda Biological Station, | 251.27 |  | ..... | " | 22.28 | ..... | 228.99 |
| | 2,550.02 | Interest . . . | 88.35 |  |  | ..... |  |
| | | Gifts | 250.00 |  |  | ..... |  |
| | | Grant from Sheldon Fund | 1,200.00 | " | 2,794.77 | ..... | 1,243.60 |
| Anonymous Gift for Fellowship for Research in Physics, | 148.84 |  | ..... | " | 148.84 | ..... | ..... |
| Gift for Expenses Appleton Chapel Choir | | Gift | 75.00 | Ap. Chap. . . | 75.00 | ..... | ..... |
| Gifts for binding collection of books sent to Southwark Public Library at London, . . . . . |  |  |  |  |  | ..... |  |
| | | Gifts | 225.00 | Coll. Sp. Ex. | 150.00 | ..... | 75.00 |
| Amounts carried forward, \$18,078,263.16 |  |  |  |  |  | ..... | \$14,528,243.64 |

COLLEGE FUNDS (continued)

| | Principal, July 1, 1916 | Receipts | Expenditures | Suspense June 30, 1917 | Principal, June 30, 1917 Totals |
|---|----------------------------|-------------------------|------------------------|------------------------|------------------------------------|
| Amounts brought forward, \$18,078,263.16 | | | | | \$14,528,243.64 |
| FELLOWSHIP | | | | | |
| Fellowship in Central American Archaeology (balance), | 26.17 | | Coll. G. Ex. \$26.17 | | |
| Victor Emanuel Chapman Memorial (1917), | | Gift Cap. . . 25,897.00 | | | |
| | | Interest . . . 899.58 | | | \$26,296.58 |
| Bayard Cutting (1910), | 26,289.36 | " . . . 1,851.31 | " Fell. . 1,150.00 | | 26,440.67 |
| W. Bayard Cutting, Jr. Bequest (1910), | 13,318.53 | " . . . 685.93 | | | 14,004.46 |
| George W. Dillaway (1908), . . . | 6,615.02 | " . . . 340.67 | " " . 300.00 | | 6,655.69 |
| Gifts for Fellowship in Department of Education, | | Gift 30.56 | | Cr. 80.56 | |
| Oxias Goodwin Memorial (1889), . | 12,287.27 | Interest . . 682.78 | " " . 525.00 | | 12,895.05 |
| William Watson Goodwin (1915), | 18,208.33 | " . . . 937.71 | " " . 600.00 | | 18,546.04 |
| Harris (1868), | 11,757.20 | " . . . 605.49 | " " . 551.56 | | 11,811.13 |
| Edward William Hooper (1905), . | 29,771.58 | " . . . 1,533.26 | " " . 1,000.00 | | 30,304.84 |
| John Thornton Kirkland (1871), | 11,873.40 | " . . . 611.46 | " " . 500.00 | | 11,984.86 |
| Henry Lee Memorial (1889), . . . | 12,805.16 | " . . . 659.46 | " " . 550.00 | | 12,914.62 |
| Elkan Naumburg (1911), | 11,984.93 | " . . . 617.23 | | | 12,602.16 |
| Charles Eliot Norton (1901), . . | 19,984.78 | " . . . 845.58 | | | 20,830.36 |
| John Knowles Paine (1912), . . | 28,496.36 | " . . . 1,813.66 | | | |
| | | Royalties . . .37 | Annuity . . . 1,245.00 | | 28,565.29 |
| Robert Treat Paine (1887), . . . | 14,004.38 | Interest . . . 731.36 | Coll. Fell. . 650.00 | | 14,076.09 |
| John Parker (1878), | 68,181.94 | " . . . 3,508.80 | " " . 1,875.00 | | 69,765.74 |

| | | | | | | |
|---|-----------|----------------|----------|-------------|----------|------------|
| Francois Parkman (1906), | 10,744.61 | Interest . . . | 553.37 | Coll. Fell. | 450.00 | 10,847.98 |
| Princeton (1910), | 10,903.90 | " . . . | 561.50 | Law " | 450.00 | 11,014.80 |
| Rogers (1869), | 36,117.98 | " . . . | 1,860.08 | Coll. " | 1,500.00 | 36,478.06 |
| Henry Bromfield Rogers Memorial (1889), | 12,323.78 | " . . . | 650.14 | " " | 550.00 | 12,738.92 |
| Sachs Research Fellowship in Fine Arts (1916), | 2,000.00 | " . . . | 103.00 | " " | | |
| | | Gift . . . | 2,000.00 | " " | 2,000.00 | 2,103.00 |
| Henry Russell Shaw (1912), . . | 39,792.54 | Interest . . . | 2,049.34 | " " | 1,200.00 | 40,641.88 |
| Social Ethics, | 105.13 | | | | | 105.13 |
| South End House (balance), | 276.95 | Gift . . . | 300.00 | " " | 511.00 | 65.95 |
| " " in Social Education (balance) | 39.00 | | | " " | 39.00 | |
| Thayer (1867), | 88,844.85 | Interest . . . | 4,575.46 | " " | 2,710.00 | |
| | | | | " Sch. | 1,650.00 | 89,059.81 |
| John Tyndall (1886), | 13,271.22 | " . . . | 683.45 | " Fell. | 575.00 | 13,879.67 |
| James Walker (1881), | 12,175.11 | " . . . | 627.01 | " " | 525.00 | 12,777.12 |
| Whiting (1896), | 26,976.50 | " . . . | 1,389.26 | " " | 1,650.00 | 26,715.76 |
| | | | | | | 573,606.66 |

SCHOLARSHIP

| | | | | | | |
|--|-----------|----------------|----------|----------------|--------|-----------------------------|
| Abbot (1852), | 4,107.75 | " . . . | \$211.56 | Coll. Sch. . . | 173.00 | \$4,144.31 |
| Alford (1785), | 3,664.64 | " . . . | 188.75 | | | 3,853.39 |
| Anonymous Gift for Scholarship, . . | | Gift . . . | 150.00 | " " | 90.00 | 60.00 |
| Bartlett (1881), | 5,565.86 | Interest . . . | 286.60 | " " | 250.00 | 5,601.96 |
| Matthew and Mary E. Bartlett Memorial (1916), | 18,896.46 | " . . . | 973.14 | " " | 400.00 | 19,469.60 |
| Amounts carried forward, \$13,649,872.60 | | | | | | \$38,139.26 \$15,100,850.30 |

COLLEGE FUNDS (continued)

| | Principal, July 1, 1916 | Receipts | Expenditures | Suspense June 30, 1917 | Totals |
|--|----------------------------|--------------------------|-------------------------|------------------------|------------|
| Amounts brought forward, \$13,649,872.60 | | | | | |
| Bassett (1876), | 5,924.39 | Interest . . . \$305.07 | Coll. Sch. . . \$384.00 | ..... | 5,995.46 |
| Bigelow (1865), | 14,466.98 | " . . . 745.05 | " . . . 480.00 | ..... | 14,781.98 |
| Samuel A. Borden (1896), | 4,577.23 | " . . . 235.72 | " . . . . . | ..... | 4,812.95 |
| Bowditch (1864), | 120,061.17 | " . . . 6,188.14 | " . . . 5,210.00 | ..... | 121,084.31 |
| Bright (balance), | 6,132.37 | " . . . 315.80 | " . . . . . | ..... |  |
| | | Trans. from Fd. 1,087.50 | " . . . 1,000.00 | ..... | 6,485.67 |
| Addison Brown (1914), | 7,726.66 | Interest . . . 897.94 | " . . . 325.00 | ..... | 7,799.60 |
| Browne (1887), | 4,223.46 | " . . . 217.48 | " . . . 105.00 | ..... | 4,385.94 |
| Morey Willard Buckminster (1898), | 5,848.59 | " . . . 301.22 | " . . . 250.00 | ..... | 5,899.81 |
| Burr (1896), | 36,980.00 | " . . . 1,904.47 | " . . . 1,800.00 | ..... | 37,284.47 |
| Francois H. Burr 1909 Fund (1913), | 8,498.06 | " . . . 437.65 | " . . . . . | ..... | 8,985.71 |
| Ruluff Sterling Choate (1884), | 6,564.88 | " . . . 388.10 | " . . . 275.00 | ..... | 6,627.98 |
| George Newhall Clark (1908), | 10,697.59 | " . . . 535.94 | " . . . 500.00 | ..... | 10,733.53 |
| Thomas William Clarke (1911), | 5,225.21 | " . . . 269.09 | " . . . 225.00 | ..... | 5,269.80 |
| Class of 1902 (1870), | 9,149.04 | " . . . 471.17 | " . . . 400.00 | ..... | 9,220.21 |
| " 1814 (1863), | 3,500.68 | " . . . 180.30 | " . . . 150.00 | ..... | 3,530.98 |
| " 1815 (Kirkland) (1852), | 7,286.85 | " . . . 875.28 | " . . . 300.00 | ..... | 7,862.13 |
| " 1817 (1852), | 5,140.11 | " . . . 264.71 | " . . . 200.00 | ..... | 5,204.82 |
| " 1828 (1862), | 3,537.01 | " . . . 181.64 | " . . . 150.00 | ..... | 3,558.65 |
| " 1835 (1858), | 5,618.76 | " . . . 289.12 | " . . . 225.00 | ..... | 5,677.88 |
| " 1841 (1871), | 5,688.09 | " . . . 292.93 | " . . . 250.00 | ..... | 5,781.02 |
| " 1844 (1896), | 13,547.51 | " . . . 689.22 | " . . . . . | ..... | 14,186.73 |
| " 1852 (Dana) (1876), | 5,686.24 | " . . . 292.83 | " . . . 250.00 | ..... | 5,729.07 |
| " 1856 (1885), | 17,459.24 | " . . . 899.14 | " . . . 750.00 | ..... | 17,608.38 |

COLLEGE FUNDS (continued)

| | Principal, July 1, 1916 | Receipts | Expenditures | Suspense June 30, 1917 | Principal, Totals |
|---|----------------------------|--------------------------|-------------------------|------------------------|------------------------------|
| Amounts brought forward, \$14,147,275.65 | | | | | \$588,921.15 \$15,100,850.80 |
| Richard Augustine Gambrill | | | | | |
| (1890), | 12,508.57 | Interest . . . \$644.21 | Coll. Sch. . . \$550.00 | ..... | 12,603.78 |
| William Gaston (1915), | 5,208.20 | " . . . 288.21 | " " . . . 225.00 | ..... | 5,251.41 |
| Charles Haven Goodwin (1889), | 8,427.75 | " . . . 484.04 | " " . . . 400.00 | ..... | 8,461.79 |
| Greene (1863), | 4,961.76 | " . . . 255.54 | " " . . . 200.00 | ..... | 5,017.30 |
| Price Greenleaf (balance), | 499.55 | " . . . 25.75 | | | |
| Thomas Hall (1912), | | Trans. from Fd. 8,000.00 | " " . . . 8,000.00 | ..... | 535.30 |
| N. P. Hallowell '61 Memorial (1915), | 11,127.88 | Interest . . . 573.09 | " " . . . 450.00 | ..... | 11,250.97 |
| g Selwyn L. Harding Scholarship | 5,541.89 | " . . . 285.36 | " " . . . 225.00 | ..... | 5,601.75 |
| of the Class of 1886 (1911), . . . | 5,225.20 | " . . . 269.09 | " " . . . 225.00 | ..... | 5,269.29 |
| Associated Harvard Clubs, | 680.00 | Gifts . . . 1,430.00 | " " . . . 1,800.00 | ..... |  |
| Harvard Club of Boston, | | | Law " . . . 800.00 | ..... |  |
| " " Buffalo, | 51.88 | Gift . . . 1,000.00 | Coll. " . . . 1,000.00 | ..... | 51.88 |
| " " Chicago, . . . . . | ..... | " . . . 200.00 | " " . . . 200.00 | ..... |  |
| " " Cincinnati, . . . . . | ..... | " . . . 1,050.00 | " " . . . 1,060.00 | ..... |  |
| " " Cleveland, . . . . . | ..... | " . . . 500.00 | " " . . . 500.00 | ..... |  |
| " " Delaware, . . . . . | ..... | " . . . 900.00 | " " . . . 900.00 | ..... |  |
| " " Fall River, | 600.00 | ..... | " " . . . 281.25 | ..... | 600.00 |
| " " Fitchburg, . . . . . | ..... | " . . . 100.00 | " " . . . 100.00 | ..... |  |
| " " Hawaii, . . . . . | ..... | " . . . 200.00 | " " . . . 200.00 | ..... |  |
| " " Kentucky, | 150.00 | ..... | " " . . . 150.00 | ..... | 150.00 |
| " " Long Island, | 200.00 | " . . . 550.00 | " " . . . 625.00 | ..... | 125.00 |

| | | | | | | | |
|---|--------|------|-----------|--------|----------------|--------|-----------------|
| Harvard Club of Lowell, | 60.00 | Gift | | 190.00 | Coll. Sch. . . | 250.00 | ..... |
| " " Lynn, . . . . . | ..... | " | . . . . . | 100.00 | " " " " | 100.00 | ..... |
| " " Maryland, . . . . . | ..... | " | . . . . . | 250.00 | " " " " | 250.00 | ..... |
| " " Michigan, | 250.00 | " | | 136.00 | " " " " | ..... | 875.00 |
| Harvard Graduates of Milton, . . . . . | ..... | " | . . . . . | 500.00 | " " " " | 500.00 | ..... |
| Harvard Club of Minnesota, . . . . . | ..... | " | . . . . . | 800.00 | " " " " | 800.00 | ..... |
| " " Newburyport, . . . . . | ..... | " | . . . . . | 100.00 | " " " " | 150.00 | Dr. \$50.00 |
| New England Federation of Harvard Clubs . . . . . | ..... | " | . . . . . | 200.00 | " " " " | 150.00 | ..... |
| Harvard Club of New Hampshire . . . . . | ..... | " | . . . . . | ..... | " " " " | 150.00 | Dr. 150.00 |
| " " New Jersey . . . . . | ..... | " | . . . . . | 250.00 | " " " " | 250.00 | ..... |
| Scholarship of the Harvard Men of Newton, | 150.00 |  |  | ..... | " Sp. Ex. | 150.00 | ..... |
| Harvard Association of Eastern New York, . . . . . | ..... | " | . . . . . | 150.00 | " Sch. . . | 150.00 | ..... |
| Harvard Club of Rhode Island, | 150.00 |  |  | ..... | " " " " | ..... | 150.00 |
| " " Rochester, . . . . . | ..... | " | . . . . . | 200.00 | " " " " | 200.00 | ..... |
| Rocky Mountain Harvard Club, . . . . . | ..... | " | . . . . . | 250.00 | " " " " | 250.00 | ..... |
| Harvard Club of St. Louis, . . . . . | ..... | " | . . . . . | 800.00 | " " " " | 300.00 | ..... |
| " " Santa Barbara . . . . . | ..... | " | . . . . . | 300.00 | " " " " | 300.00 | ..... |
| " " Seattle, . . . . . | ..... | " | . . . . . | 150.00 | " " " " | ..... | Cr. 150.00 |
| " " Somerville, | 100.00 |  |  | ..... | " " " " | 100.00 | ..... |
| " " Syracuse, . . . . . | ..... | " | . . . . . | 150.00 | " " " " | 200.00 | Dr. 50.00 |
| " " Washington, D. C. (balance), | 4.24 | | | 300.00 | " " " " | 250.00 | ..... |
| " " Western Penn., . . . . . | ..... | " | . . . . . | 700.00 | " " " " | 700.00 | ..... |
| " " Worcester, . . . . . | ..... | " | . . . . . | 400.00 | " " " " | 400.00 | ..... |
| Amounts carried forward, \$14,208,172.07 | | | | | | | \$594,457.86 |
| | | | | | | | \$15,100,850.30 |

COLLEGE FUNDS (continued)

| | Principal, July 1, 1916 | Receipts | Expenditures | Suspense June 30, 1917 | Principal, June 30, 1917 Totals |
|--|----------------------------|-------------------------|-------------------------|------------------------|------------------------------------|
| Amounts brought forward, \$14,203,173.07 | | | | | \$594,457.86 \$15,100,850.80 |
| John Appleton Haven (1902), . . . | 11,059.43 | Interest . . . \$569.54 | Coll. Sch. . . \$475.00 | ..... | 11,153.97 |
| William Hilton (1897), | 27,961.04 | " . . . 1,439.99 | " " " 225.00 | ..... |  |
| | | | Engin. " " 225.00 | ..... |  |
| | | | Med. " " 450.00 | ..... | 28,501.08 |
| Ebenezer Rockwood Hoar | | | | | |
| (1895), | 12,422.64 | " . . . 639.78 | Coll. " " 500.00 | ..... | 12,562.42 |
| Levina Hoar, for the Lincoln | | | | | |
| Scholarship (1876), | 6,932.31 | " . . . 357.00 | Med. " " 300.00 | ..... | 6,989.31 |
| Hodges (1878), | 14,915.05 | " . . . 768.12 | Coll. " " 165.00 | ..... |  |
| | | | Trans. to Lib. 395.68 | ..... | 15,122.49 |
| Hollis (1722), | 6,962.35 | " . . . 358.54 | Coll. Sch. . . 300.00 | ..... | 7,020.89 |
| Henry B. Humphrey (1890), . . | 11,694.42 | " . . . 602.24 | " " " 500.00 | ..... | 11,796.66 |
| Charles L. Jones (1901), | 34,262.00 | " . . . 1,764.49 | " " " 1,350.00 | ..... | 34,676.49 |
| George Emerson Lowell (1886), | 11,609.31 | " . . . 597.86 | " " " 500.00 | ..... | 11,707.17 |
| Robert F. Manning Scholarships | | | | | |
| (1915), | 10,849.30 | " . . . 582.97 | " " " 450.00 | ..... | 10,432.27 |
| Markoe (1903), | 6,025.49 | " . . . 810.29 | " " " 250.00 | ..... | 6,085.78 |
| Mathews, | 2,598.60 | " . . . 138.85 |  | ..... |  |
| | | Rents . . . 8,146.38 | " " " 1,300.00 | ..... | 4,678.83 |
| Merrick (1888), | 6,896.11 | Interest . . . 355.14 | " " " 300.00 | ..... | 6,951.25 |
| Morey (1868), | 9,282.78 | " . . . 478.07 | " " " 400.00 | ..... | 9,860.85 |
| Lady Mowilson (1648), | 6,482.59 | " . . . 333.87 | " " " 325.00 | ..... | 6,491.46 |
| Boston Newsboys' (1906), | 8,197.59 | " . . . 164.70 | " " " 150.00 | ..... | 8,212.29 |
| Howard Gardner Nichols (1897), | 6,271.48 | " . . . 322.96 | " " " 275.00 | ..... | 6,819.39 |

| | | | | | | | |
|---|-----------|----------------|----------|----------------|--------|-------|-------------------------------------|
| Lucy Osgood (1878), | 6,603.27 | Interest . . . | 840.05 | Coll. Sch. . . | 275.00 | ..... | 6,668.32 |
| George Herbert Palmer (1911), . | 1,939.13 | " . . . | 99.86 |  | ..... | ..... | 2,038.99 |
| George Foster Peabody (1902), . | 4,800.00 |  | ..... |  | ..... | ..... | 4,800.00 |
| James Mills Peirce Scholarship (1908), | 5,865.57 | " . . . | 303.13 |  | ..... | ..... | 6,188.70 |
| Pennoyer (1870), | 8,664.77 | " . . . | 446.25 | Arch. " . . | 100.00 | ..... | 8,811.02 |
| | | | | Med. " . . | 200.00 | ..... |  |
| Charles Elliott Perkins Scholar- ships (1909), | 32,881.13 | " . . . | 1,693.37 | Coll. " . . | 900.00 | ..... |  |
| | | | | Law " . . | 600.00 | ..... | 38,074.50 |
| Rebecca A. Perkins (1869), . . . | 5,142.54 | " . . . | 264.86 | Coll. " . . | 225.00 | ..... | 5,132.40 |
| Philadelphia (1904), | 11,239.68 | " . . . | 578.86 |  | ..... | ..... |  |
| | | Gift . . . | 65.00 | " . . | 600.00 | ..... | 11,233.54 |
| Wendell Phillips Mem'l (1895), . | 1,897.58 | Interest . . . | 97.75 | " . . | 45.00 | ..... | 1,900.88 |
| Elnathan Pratt (1912), | 5,216.46 | " . . . | 268.62 | " . . | 225.00 | ..... | 5,260.08 |
| William Reed (1907), | 3,917.88 | " . . . | 185.22 | " . . | 150.00 | ..... | 3,952.60 |
| Ricardo Prize (balance), | 350.00 | Gift . . . | 350.00 |  | ..... | ..... | 700.00 |
| Rodger (1883), | 2,058.57 | Interest . . . | 106.04 |  | ..... | ..... | 2,164.61 |
| Henry Bromfield Rogers (1859), | 3,861.29 | " . . . | 198.84 | " . . | 150.00 | ..... | 3,910.13 |
| Nathaniel Ropes, Jr. Scholarship (1909), | 11,593.09 | " . . . | 597.04 | " . . | 500.00 | ..... | 11,690.13 |
| James Augustus Rumrill (1909), | 16,389.67 | " . . . | 844.08 | " . . | 725.00 | ..... | 16,508.75 |
| Edward Russell (1877), | 6,360.42 | " . . . | 327.54 | " . . | 275.00 | ..... | 6,412.96 |
| Sales (1893), | 6,339.44 | " . . . | 326.46 | " . . | 250.00 | ..... | 6,415.90 |
| Saltonstall (1789), | 12,284.84 | " . . . | 632.63 | " . . | 525.00 | ..... | 12,391.97 |
| Leverett Saltonstall (1895), . . . | 9,370.21 | " . . . | 492.55 | " . . | 400.00 | ..... | 9,452.76 |
| Mary Saltonstall (1780), | 7,974.70 | " . . . | 410.71 | " . . | 300.00 | ..... | 8,086.41 |
| Amounts carried forward, \$14,556,863.75 | | | | | | | \$954,463.51 \$15,100,860.80 |

COLLEGE FUNDS (continued)

| | Principal, July 1, 1916 | Receipts | Expenditures | Suspense | Principal, June 30, 1917 | Totals |
|--|----------------------------|-------------------------|-------------------------|----------|-----------------------------|-----------------|
| Amounts brought forward, \$14,556,868.75 | | | | | \$954,463.51 | \$15,100,850.80 |
| Philip H. Sears (1914), | 17,380.58 | Interest . . . \$895.12 | Coll. Sch. . . \$700.00 | ..... | 17,575.70 | |
| Sever (1868), | 8,373.30 | " . . . 173.71 | " " . . 150.00 | ..... | 8,397.01 | |
| Sewall (1896), | 12,489.09 | " . . . 643.18 | " " . . 500.00 | ..... | 12,632.27 | |
| Shattuck (1854), | 53,994.09 | " . . . 2,780.69 | " " . . 1,800.00 | ..... | 54,974.78 | |
| Shimmin (1914), | 5,223.14 | " . . . 268.98 | " " . . 225.00 | ..... | 5,267.12 | |
| Slade (1877), | 6,577.97 | " . . . 388.77 | " " . . 275.00 | ..... | 6,641.74 | |
| Dunlap Smith (1903), | 4,815.51 | " . . . 205.97 | " " . . 310.00 | ..... | 4,711.48 | |
| Story (1864), | 5,004.53 | " . . . 257.76 | " " . . 200.00 | ..... | 5,062.29 | |
| Stoughton (1701), | 3,812.01 | ..... | ..... | ..... | 3,812.01 | |
| Charles Sumner (gift), | 10.20 | Gift . . . 200.00 | " " . . 200.00 | ..... | 10.20 | |
| Swift (1899), | 4,876.45 | Interest . . . 251.11 | " " . . 200.00 | ..... | 4,927.56 | |
| Texas State, | 48.00 | ..... | " " . . 48.00 | ..... | ..... |  |
| Gorham Thomas (1865), | 4,731.97 | " . . . 243.70 | " " . . 187.50 | ..... | 4,788.17 | |
| Toppan (1868), | 7,686.16 | " . . . 895.98 | " " . . 325.00 | ..... | 7,759.09 | |
| Townsend (1861), | 28,950.37 | " . . . 1,490.96 | " " . . 1,225.00 | ..... | 29,216.23 | |
| William Royall Tyler (1915), . . | 2,322.42 | " . . . 119.58 | ..... | ..... | 2,442.00 | |
| Ira D. Van Duzee (1911), . . . | 5,136.69 | " . . . 264.55 | Annuity . . 196.22 | ..... | 5,205.02 | |
| Walcott (1855), | 5,804.39 | " . . . 298.91 | Coll. Sch. . . 200.00 | ..... | 5,908.30 | |
| Christopher M. Weld (1899), . . | 11,625.54 | " . . . 598.74 | " " . . 500.00 | ..... | 11,724.28 | |
| Gordon Wendell (1913), | 2,678.28 | " . . . 114.91 | ..... | ..... | 2,793.19 | |
| Jacob Wendell (1899), | 6,050.72 | " . . . 311.63 | " " . . 250.00 | ..... | 6,112.35 | |
| Whiting (1874), | 12,605.93 | " . . . 649.21 | " " . . 550.00 | ..... | 12,706.14 | |
| Josiah Dwight Whitney (1904), . | 5,278.72 | " . . . 271.87 | " " . . 263.05 | ..... | 5,287.54 | |
| Mary L. Whitney (1903), | 12,867.32 | " . . . 686.90 | " " . . 525.00 | ..... | 12,479.22 | |

| | | | | | | | |
|--|-----------|----------------|--------|----------------|--------|-------|---------------------|
| Willard (1907), | 10,935.11 | Interest . . . | 563.15 | Coll. Sch. . . | 475.00 | ..... | 11,023.26 |
| Augustus Woodbury Scholarship (1909), | 2,679.92 | " . . . | 138.02 | " " . . . | 100.00 | ..... | 2,717.94 |
| Charles Wyman (1905), | 10,944.88 | " . . . | 563.67 | " " . . . | 475.00 | ..... | 11,033.55 |
| | | | | | | | <u>1,204,665.95</u> |

BENEFICIARY AND LOAN

| | | | | | | | |
|---|------------|----------------|------------|---------------|----------|-------|-------------|
| Rebecca C. Ames (1908), | 57,544.23 | Interest . . . | \$2,963.52 | | | | |
| | | Repayments . . | 390.55 | Coll. B. F. . | 2,804.00 | ..... | \$58,594.30 |
| Nathaniel Appleton (1773), | 775.01 | Interest . . . | 39.91 |  |  | ..... | 814.92 |
| Frank Bolles Memorial (1894), | 2,599.51 | " . . . | 133.90 |  |  | ..... |  |
| | | Repayments . . | 101.68 |  |  | ..... | 2,885.09 |
| William Brattle (1717), | 1,921.26 | Interest . . . | 98.98 | " " . . . | 98.98 | ..... | 1,921.26 |
| Daniel A. Buckley (1905), | 100,574.14 | " . . . | 6,328.24 | " Sch. . . | 4,350.00 | ..... |  |
| | | | | Gr. Bus. Sch. | 500.00 | | |
| | | | | Med. Sch. . . | 235.00 | | |
| | | | | F. & G. Sp. . | 1.44 | ..... | 102,325.94 |
| Walter Channing Cabot (1905), | 54,999.25 | " . . . | 2,332.45 | Div. Sal. . . | 2,000.00 | ..... | 55,331.70 |
| Samuel C. Cobb (1916), | 30,000.00 | " . . . | 1,545.00 | Coll. B. F. . | 1,115.00 | ..... | 30,490.00 |
| Thomas Danforth (1724), | 1,588.07 | " . . . | 81.52 | " " . . . | 70.00 | ..... | 1,594.59 |
| Moses Day (1880), | 5,490.08 | " . . . | 282.74 | " " . . . | 232.74 | ..... | 5,490.08 |
| Dean's Loan, Harvard College, | 153.30 | Repayments . . | 228.00 |  |  | ..... | 381.30 |
| John Ellery (1738), | 549.89 | Interest . . . | 28.38 | " " . . . | 28.38 | ..... | 549.89 |
| Exhibitions (1796), | 1,387.77 | " . . . | 71.48 | " " . . . | 71.48 | ..... | 1,387.77 |
| Fines Loan (balance), | 2,797.05 | " . . . | 28.49 | | | | |
| | | Repayments . . | 2,454.31 | | | | |
| | | Fees | 1,620.00 | " " . . . | 4,399.80 | ..... | 2,500.05 |

Amounts carried forward, \$15,064,648.50 \$264,656.89 \$16,305,516.35

COLLEGE FUNDS (continued)

| | Principal, July 1, 1916 | Receipts | Expenditures | Suspense | Principal, June 30, 1917 | Totals |
|---|----------------------------|---------------------------|--------------------------|----------|-----------------------------|-----------------|
| Amounts brought forward, \$16,064,643.50 | | | | | \$264,656.39 | \$16,305,516.25 |
| Thomas Fitch (1787), | 1,274.15 | Interest . . . \$65.61 | ..... | ..... | 1,339.76 | |
| Ephraim Flynt (1728), | 634.16 | " 32.14 | ..... | ..... | 656.30 | |
| Henry Flynt (1760), | 234.72 | " 11.59 | ..... | ..... | 236.31 | |
| Freshman Loan (balance), | 1,856.91 | " 34.16 | ..... | ..... |  |  |
| Freshman Loan, Gove Gift, | 1,169.10 | Repayments . . 682.98 | Coll. B. F. . . 1,880.00 | ..... | 1,194.00 | |
| Edward William Friend Memorial (1916), . . . . . | ..... | Interest 46.76 | ..... | ..... | 1,215.86 | |
| Henry Gibbs (1722), | 620.34 | Gift Cap. . . . 1,225.00 | " 50.00 | Dr. 1.63 | 1,225.00 | |
| John Glover (1653), | 4,962.13 | Interest 48.37 | " . . . . . | ..... | 652.37 | |
| Loan Fund — Graduate School of Arts and Sciences, | 270.00 | " 31.93 | ..... | ..... | 5,217.67 | |
| Price Greenleaf Aid (balance), | 35,006.37 | " 255.54 | " . . . . . | ..... | 29.55 | |
|  |  | ..... | " . . . . . 240.45 | ..... |  |  |
| | | " 1,802.81 | | | | |
| | | Trans. from Fd. 17,627.51 | | | | |
| Edwin A. W. Harlow (1905), | 13,922.72 | Repayments . . 1,880.29 | " 16,172.78 | ..... | 39,644.25 | |
| | | Gift Cap. . . . 4.96 | | | | |
| | | Interest 717.08 | | | | |
| | | Repayments . . 680.86 | " 824.15 | ..... | 14,501.42 | |
| Robert Henry Harlow (1908), | 6,722.28 | Interest 346.18 | " . . . . . | ..... |  |  |
| | | Repayments . . 26.25 | " 50.00 | ..... | 7,044.66 | |
| | | Gift 45.00 | ..... | ..... | 245.00 | |
| Harvard Dames Fund, | 200.00 | | | | | |
| Student Fund of the Harvard Engineering Society of New York (1908) (balance), | 970.89 | Interest 50.00 | ..... | ..... | 1,102.83 | |
| | | Repayments . . 81.94 | | | | |

| | | | | | |
|--|-----------|----------------------------|----------|-------------------|---------------------|
| Edward Holyoke (1748), | 560.76 | Interest . . . | 38.89 | ..... | 589.65 |
| Robert Keayne (1859), | 2,969.78 | " . . . | 152.95 | ..... | 2,969.78 |
| Bertram Kimball (1908), | 26,741.47 | " . . . | 1,377.16 | ..... | 26,958.90 |
| Harry Milton Levy Loan (College) (balance), | 585.05 | Interest . . . | 10.44 | ..... |  |
| | | Repayments . . | 166.50 | " . . | 441.99 |
| Mary Lindall (1812), | 1,556.48 | Interest . . . | 80.13 | ..... | 1,636.61 |
| The Loan, . . . . . | ..... | Received from Trustees . . | 4,610.00 | " . . | ..... |
| | | Interest . . . | 808.43 | Tr. to Coll. L.F. | 206.62 |
| Susan B. Lyman (1899), | 5,988.37 | Interest . . . | | " Univ. " | 102.81 |
| Susan B. Lyman Loans (College) (balance), | 140.65 | Trans. from Fd. . | 205.62 | ..... | 5,988.87 |
| | | Repayments . . | 839.00 | Coll. B. F. . | 330.00 |
| Anne Mills (1725), | 299.73 | Interest . . . | 15.45 | " . . | 15.45 |
| Munroe (1880), | 12,010.81 | " . . . | 618.57 | ..... | 12,867.40 |
| | | Repayments . . | 288.02 | ..... | 2,614.92 |
| Palfrey Exhibition (1821), | 2,486.84 | Interest . . . | 128.08 | ..... |  |
| Dr. Andrew P. Peabody Memorial (1896), | 6,301.25 | " . . . | 324.50 | " . . | 150.00 |
| | | Repayments . . | 25.00 | ..... | 6,500.75 |
| Regent's Loan Fund, | 743.35 | Interest . . . | 29.73 | ..... | 773.08 |
| Scholarship and Beneficiary Money Returned (balance), | 4,185.06 | Repayments . . | 3,223.80 | " . . | 5,552.60 |
| Joseph Sewall (1765), | 314.64 | Interest . . . | 16.22 | ..... | 330.86 |
| Alexander Wheelock Thayer (1899), | 17,331.40 | " . . . | 892.55 | Annuity . . | 360.00 |
| Amounts carried forward, \$15,214,688.36 |  |  |  | ..... | 17,863.95 |
|  |  |  |  | ..... | <u>\$421,004.79</u> |
|  |  |  |  | ..... | \$16,305,516.25 |

COLLEGE FUNDS (continued)

| | Principal, July 1, 1916 | Receipts | Expenditures | Suspense | Principal, June 30, 1917 | Totals |
|---|----------------------------|---------------------------|--------------------------|----------|-----------------------------|-----------------|
| Amounts brought forward, \$15,064,643.50 | | | | | \$264,656.39 | \$16,305,516.25 |
| Thomas Fitch (1737), | 1,274.15 | Interest . . . \$65.61 | ..... | ..... | 1,339.76 | |
| Ephraim Flynt (1723), | 624.16 | " 32.14 | ..... | ..... | 656.30 | |
| Henry Flynt (1760), | 224.72 | " 11.59 | ..... | ..... | 236.31 | |
| Freshman Loan (balance), | 1,856.91 | " 34.16 | ..... | ..... |  |  |
| Freshman Loan, Gove Gift, | 1,169.10 | Repayments . . 632.98 | Coll. B. F. . . 1,330.00 | ..... | 1,194.00 | |
| Edward William Friend Memorial (1916), . . . . . | ..... | Interest 46.76 | ..... | ..... | 1,215.86 | |
| Henry Gibbs (1723), | 620.34 | Gift Cap. . . . 1,225.00 | " 50.00 | Dr. 1.63 | 1,225.00 | |
| John Glover (1659), | 4,962.13 | Interest 48.37 | " . . . . . | ..... | 652.37 | |
| Loan Fund — Graduate School of Arts and Sciences, | 270.00 | " 81.93 | ..... | ..... | 5,217.67 | |
| Price Greenleaf Aid (balance), | 35,006.37 | " 255.54 | " . . . . . | ..... | 29.55 | |
|  |  | ..... | " . . . . . 240.45 | ..... |  |  |
| | | " 1,802.81 | | | | |
| | | Trans. from Fd. 17,627.51 | | | | |
| Edwin A. W. Harlow (1905), | 13,922.72 | Repayments . . 1,380.29 | " 16,172.73 | ..... | 39,644.25 | |
| | | Gift Cap. . . . 4.96 | | | | |
| | | Interest 717.03 | | | | |
| | | Repayments . . 680.86 | " 824.15 | ..... | 14,501.42 | |
| Robert Henry Harlow (1908), | 6,722.23 | Interest 346.18 | " . . . . . | ..... | 7,044.66 | |
| | | Repayments . . 26.25 | " 50.00 | ..... | 245.00 | |
| Harvard Dames Fund, | 200.00 | Gift 45.00 | ..... | ..... |  |  |
| Student Fund of the Harvard Engi- neering Society of New York (1908) (balance), | 970.89 | Interest 50.00 | | | | |
| | | Repayments . . 81.94 | ..... | ..... | 1,102.83 | |

| | | | | | | |
|--|-----------|------------------------------|----------|-------------------|----------|-------------------------------------|
| Edward Holyoke (1748), | 560.76 | Interest . . . | 28.89 | ..... | ..... | 589.65 |
| Robert Keayne (1659), | 2,969.78 | " . . . | 152.95 | Coll. B. F. . | 152.95 | 2,969.78 |
| Bertram Kimball (1903), | 26,741.47 | " . . . | 1,877.16 | " " . . | 1,164.73 | 26,953.90 |
| Harry Milton Levy Loan (College) (balance), | 585.05 | Interest . . . | 10.44 | | | |
| | | Repayments . . | 166.50 | " " . . | 320.00 | 441.99 |
| Mary Lindall (1812), | 1,556.48 | Interest . . . | 80.13 | | | 1,636.61 |
| The Loan, . . . . . | ..... | Received from Trustees . . | 4,610.00 | " " . . | 4,610.00 | ..... |
| Susan B. Lyman (1899), | 5,988.87 | Interest . . . | 308.43 | Tr. to Coll. L.F. | 205.62 | |
| | | | | " " Univ. " | 102.81 | 5,988.87 |
| Susan B. Lyman Loans (College) (balance), | 140.55 | Trans. from Ed. Repayments . | 205.62 | | | |
| | | Interest . . . | 339.00 | Coll. B. F. . | 380.00 | 855.27 |
| Anne Mills (1725), | 299.73 | " . . . | 15.45 | " " . . | 15.45 | 299.73 |
| Munroe (1880), | 12,010.81 | Repayments . | 618.57 | | | 12,867.40 |
| | | Interest . . . | 288.02 | | | 2,614.92 |
| Palfrey Exhibition (1821), | 2,486.84 | Interest . . . | 128.08 | | | |
| Dr. Andrew P. Peabody Memorial (1896), | 6,801.25 | " . . . | 324.50 | | | |
| | | Repayments . | 25.00 | " " . . | 150.00 | 6,500.75 |
| Regent's Loan Fund, | 743.35 | Interest . . . | 29.73 | | | 773.08 |
| Scholarship and Beneficiary Money Returned (balance), | 4,185.06 | Repayments . | 3,223.80 | " " . . | 5,552.60 | 1,856.26 |
| Joseph Sewall (1765), | 314.64 | Interest . . . | 16.22 | | | 330.86 |
| Alexander Wheelock Thayer (1899), | 17,331.40 | " . . . | 892.55 | Annuity . . | 360.00 | 17,863.95 |
| Amounts carried forward, \$15,214,683.36 | | | | | | \$431,004.79 \$16,305,516.25 |

COLLEGE FUNDS (continued)

| | <i>Principal, July 1, 1916</i> | <i>Receipts</i> | <i>Expenditures</i> | <i>Suspense</i> | <i>Principal, June 30, 1917</i> | <i>Totals</i> |
|---|------------------------------------|---------------------------|------------------------|-----------------|-------------------------------------|-----------------|
| Amounts brought forward, \$15,064,643.50 | | | | | \$264,656.89 | \$16,305,516.25 |
| Thomas Fitch (1737), | 1,274.15 | Interest . . . \$65.61 | ..... | ..... | 1,339.76 | |
| Ephraim Flynt (1728), | 624.16 | " 32.14 | ..... | ..... | 656.30 | |
| Henry Flynt (1760), | 224.72 | " 11.59 | ..... | ..... | 236.31 | |
| Freshman Loan (balance), | 1,856.91 | " 34.16 | ..... | ..... |  |  |
| Freshman Loan, Gove Gift, | 1,169.10 | Repayments . . 632.98 | Coll. B. F. . 1,380.00 | ..... | 1,194.00 | |
| Edward William Friend Memorial (1916), . . . . . | ..... | Interest . . . 46.76 | ..... | ..... | 1,215.86 | |
| Henry Gibbs (1722), | 620.34 | Gift Cap. . . 1,225.00 | ..... | ..... | 1,225.00 | |
| John Glover (1853), | 4,962.18 | Interest . . . 48.37 | " 50.00 | Dr. 1.63 | 652.37 | |
| Loan Fund — Graduate School of Arts and Sciences, | 270.00 | " 81.93 | ..... | ..... | 5,217.67 | |
| Price Greenleaf Aid (balance), | 35,006.37 | " 255.54 | ..... | ..... | 29.55 | |
| Edwin A. W. Harlow (1905), | 18,922.72 | ..... | " . . . . . 240.45 | ..... |  |  |
| Robert Henry Harlow (1908), | 6,722.23 | Trans. from Fd. 17,627.51 | " 16,172.73 | ..... | 89,644.25 | |
| Harvard Dames Fund, | 200.00 | Repayments . . 1,380.29 | " 824.15 | ..... | 14,501.42 | |
| Student Fund of the Harvard Engineering Society of New York (1908) (balance), | 970.89 | Interest . . . 4.96 | " 50.00 | ..... | 7,044.66 | |
| | | Repayments . . 26.25 | ..... | ..... | 245.00 | |
| | | Gift 45.00 | ..... | ..... |  |  |
| | | Interest . . . 50.00 | ..... | ..... | 1,102.88 | |
| | | Repayments . . 81.94 | ..... | ..... |  |  |

| | | | | | | |
|---|-----------|----------------------------|----------|-------------------|----------|------------------------------|
| Edward Holyoke (1748), | 560.76 | Interest . . . | 28.89 | | | 589.65 |
| Robert Keayne (1689), | 2,969.78 | " . . . | 152.95 | Coll. B. F. . | 152.95 | 2,969.78 |
| Bertram Kimball (1908), | 26,741.47 | " . . . | 1,877.16 | " " . . | 1,164.73 | 26,958.90 |
| Harry Milton Levy Loan (College) (balance), | 585.05 | Interest . . . | 10.44 | | | |
| | | Repayments . . | 166.50 | " " . . | 320.00 | 441.99 |
| Mary Lindall (1812), | 1,556.48 | Interest . . . | 80.13 | | | 1,636.61 |
| The Loan, . . . . . | ..... | Received from Trustees . . | 4,610.00 | " " . . | 4,610.00 | ..... |
| Susan B. Lyman (1899), | 5,988.87 | Interest . . . | 308.43 | Tr. to Coll. L.F. | 305.62 | |
| | | | | " " Univ. " | 102.81 | 5,988.87 |
| Susan B. Lyman Loans (College) (balance), | 140.55 | Trans. from Fd. . | 205.62 | | | |
| | | Repayments . . | 339.00 | Coll. B. F. . | 330.00 | 355.27 |
| is Anne Mills (1725), | 299.73 | Interest . . . | 15.45 | " " . . | 15.45 | 299.73 |
| Munroe (1880), | 12,010.81 | " . . . | 618.57 | | | |
| | | Repayments . . | 238.02 | | | 12,867.40 |
| Palfrey Exhibition (1821), | 2,486.84 | Interest . . . | 128.08 | | | 2,614.92 |
| Dr. Andrew P. Peabody Memorial (1896), | 6,301.25 | " . . . | 324.50 | | | |
| | | Repayments . . | 25.00 | " " . . | 150.00 | 6,500.75 |
| Regent's Loan Fund, | 743.35 | Interest . . . | 29.73 | | | 773.08 |
| Scholarship and Beneficiary Money Returned (balance), | 4,185.06 | Repayments . . | 3,223.80 | " " . . | 5,552.60 | 1,856.26 |
| Joseph Sewall (1765), | 314.64 | Interest . . . | 16.22 | | | 330.86 |
| Alexander Wheelock Thayer (1899), | 17,331.40 | " . . . | 892.55 | Annuity . . | 360.00 | 17,863.95 |
| Amounts carried forward, \$15,214,638.36 | | | | | | \$431,004.79 \$16,305,516.25 |

COLLEGE FUNDS (continued)

| | <i>Principal, July 1, 1916</i> | <i>Receipts</i> | <i>Expenditures</i> | <i>Suspense</i> | <i>Principal, June 30, 1917</i> | <i>Totals</i> |
|---|------------------------------------|-------------------------|--------------------------|-----------------|-------------------------------------|-----------------|
| Amounts brought forward, \$15,214,683.36 | | | | | \$431,004.79 | \$16,305,516.25 |
| Quincy Tufts (1877), | 11,177.31 | Interest . . . \$575.62 | Coll. B. F. . . \$343.12 | ..... | 11,409.81 | |
| Benjamin Wadsworth (1787), . . | 385.44 | " . . . 19.83 | ..... | ..... | 405.27 | |
| Waite Memorial (1912), | 122,880.55 | " . . . 6,328.37 | ..... | ..... | 129,208.92 | |
| Stuart Wadsworth Wheeler (1898), | 10,426.44 | " . . . 536.94 | ..... | ..... |  |  |
| | | Repayments . . 81.00 | ..... | ..... | 11,044.38 | 573,078.17 |

PRIZE

| | | | | | | |
|---|------------|-----------------------|-------------------------|-------|------------|-------|
| Jeremy Belknap, . . . . . | ..... | Gift \$50.00 | Coll. Prize . . \$50.00 | ..... | ..... | ..... |
| James Gordon Bennett (1893), . . | \$2,248.38 | Interest . . . 115.76 | " . . . 75.00 | ..... | \$2,289.14 | |
| Philo Sherman Bennett (1905), . . | 558.46 | " . . . 28.74 | ..... | ..... | 587.20 | |
| Francis Boott (1904), | 10,800.00 | " . . . 556.20 | " . . . 190.00 | ..... | 10,800.00 | |
| Bowdoin Prizes for Dissertations (1791), | 34,509.88 | " . . . 1,777.27 | Tr. to Lib. Fd. 366.20 | ..... | 35,602.70 | |
| Henry S. Bowers, . . . . . | ..... | Gift 75.00 | Coll. Prize . . 684.45 | ..... | 75.00 | |
| Boylston Prizes for Elocution (1817), | 2,473.04 | Interest . . . 127.86 | " . . . 60.00 | ..... | 2,540.40 | |
| Coolidge Debating (1899), | 5,917.61 | " . . . 304.78 | " . . . 166.71 | ..... | 6,055.68 | |
| Dante, | 100.00 | ..... | ..... | ..... | 100.00 | |
| Lloyd McKim Garrison Prize and Medal (1904), | 3,002.04 | " . . . 154.60 | " . . . 105.75 | ..... | 3,050.89 | |
| Harvard Club of New Jersey Prizes (balance), | 8.24 | ..... | ..... | ..... | 8.24 | |

**Edward Hopkins Gift for "De-
ture" (1718) (balance),**

2,766.21 Interest . . . 141.93

Rec'd from
Trustees . .

2,745.24

George Arthur Knight (1909), .

1,468.08 Interest . . .

75.34

895.00 Coll. Prize .

1,538.43

Menorah Society,

Gift

200.00

100.00

50.00

Old Testament Study,

90.00

90.00

50.00

Patria Society Gift,

50.00

50.00

50.00

Susan Anthony Potter,

225.00 Interest . . .

11.59

175.00

286.59

Sales (1892),

1,264.53 Interest . . .

65.15

45.00

1,284.68

John O. Sargent (1889),

3,069.77

188.10

100.00

3,127.87

George B. Schier (1890),

7,250.00

878.88

250.00

7,250.00

Charles Sumner (1874),

5,185.14

264.45

123.38

5,399.59

Robert N. Toppan (1894),

4,762.11

245.24

300.69

4,706.66

Lee Wade II (1915),

1,000.00

50.00

50.00

1,000.00

Philip Washburn (1899),

2,655.77

136.78

75.00

2,717.55

David A. Wells (1901),

118,901.82

5,865.95

5,089.48

2,717.55

Reimburse'm't

on acct. 1915-16

296.47

500.00

115,172.12

Elisabeth Wilder (1911),

2,177.38 Interest . . .

112.12

35.00

2,289.50

Wister (1911),

968.55

49.65

978.20

209,705.67

SUMMER SCHOOL

**Sayles, for Summer Course in Ge-
ology (1909),**

\$10,419.64

\$436.68

\$432.03

\$10,534.24

Gift for current use,

375.00

375.00

10,584.24

Amounts carried forward, \$15,576,729.75

10,584.24

10,584.24

10,584.24

LIBRARY

| | <i>Principal, July 1, 1916</i> | <i>Receipts</i> | <i>Expenditures</i> | <i>Suspense June 30, 1917</i> | <i>Principal, Totals</i> |
|--|------------------------------------|--------------------------|--------------------------|-------------------------------|------------------------------|
| Amounts brought forward, \$15,576,729.75 | | | | | \$17,098,829.33 |
| Anonymous Fund for Library (1913), | 25,000.00 | Interest . . . \$900.00 | Lib. G. Ex. . . \$800.00 | ..... | 25,000.00 |
| Boott Income for Books (balance), | 794.66 | Trans. from Fd. 366.20 | " Books . . . . . | ..... | 537.08 |
| Bowditch (1861), | 2,229.80 | Interest . . . 114.85 | " " " " . . . . . | ..... | 2,302.88 |
| Bright (balance), | 80.49 | Trans. from Fd. 1,387.50 | " " " " . . . . . | ..... | 74.00 |
| William R. Castle (1907), | 1,100.65 | Interest . . . 124.15 | " " " " . . . . . | ..... |  |
| | | Gift Cap. . . . 900.00 | " " " " . . . . . | ..... | 2,107.19 |
| Francois James Child Memorial | | | | | |
| (1897), | 11,225.65 | Interest . . . 1,478.41 | | | |
| | | Trans. from | | | |
| | | Class 1846 Fd. 17,480.89 | " " " " | 671.02 | 29,898.33 |
| Fund of the Class of 1851 (1899), | 2,245.73 | Interest . . . 115.67 | " " " " | 310.10 | 2,061.30 |
| Book Fund of the Class of 1881 | | | | | |
| (1906), | 3,500.00 | " " " " 180.25 | | | |
| | | Adjustm't on | | | |
| | | acct. 1915-16 | " " " " | 106.91 | 3,732.80 |
| Edwin Conant (1892), | 27,916.77 | Interest . . . 1,437.73 | " " " " | 250.13 | |
| | | | G. Ex. | 1,078.30 | 28,026.07 |
| Constantius (1886), | 26,463.83 | " " " " 1,362.90 | " Books | 402.85 | |
| | | | G. Ex. | 681.45 | 26,742.43 |
| Archibald C. Coolidge and | | | | | |
| Clarence L. Hay (1910), | 5,337.36 | " " " " 276.45 | " Books | 362.54 | 5,281.77 |
| S. Newton Cutler (1912), | 1,020.57 | " " " " 52.58 | " " " " | 63.62 | 1,009.53 |
| W. Bayard Cutting, Jr. Bequest | | | | | |
| (1910), | 12,995.93 | " " " " 669.30 | " " " " | 937.12 | 12,698.11 |

| | | | | | | | | | |
|--|-----------|----------------|-----------|---------------|-----------|------------|-------|-----------|------------------------------|
| Horace Davis Bequest, . . . . . | ..... |  |  |  |  |  |  |  |  |
| Peter F. F. Degrand Bequest(1917), | ..... | Gift Cap. . . | 75,000.00 | F. & G. Sp. . | 451.25 | Dr. 451.25 | ..... |  |  |
|  | ..... | Interest . . . | 606.77 | Lib. Books . | 264.01 |  | ..... | 75,842.76 | |
| Denny (1875), | 5,458.92 | " . . . | 281.14 | " " . . | 174.22 |  | ..... | 5,565.84 | |
| Henry Weston Farnsworth Memorial (1917), . . . . . | ..... | Gift Cap. . . | 30,000.00 | | | | | | |
|  | ..... | Interest . . . | 194.72 | Lib. Sp. Ex.. | 8.95 |  | ..... | 30,185.77 | |
| Farrar (1871), | 5,391.63 | " . . . | 277.69 | " Books . | 48.73 |  | ..... | 5,620.59 | |
| John Hays Gardiner Memorial (1913), | 2,182.88 | " . . . | 112.42 | " " . . | 50.84 |  | ..... | 2,244.41 | |
| Department of German (1915), . . . | 2,867.30 | " . . . | 147.65 | " " . . | 31.57 |  | ..... | 2,983.38 | |
| Price Greenleaf (balance for books), | 405.72 | Trans.from Fd. | 1,000.00 | " " . . | 899.30 |  | ..... | 506.42 | |
| Price Greenleaf (for general expenses), . . . . . | ..... | " " . . | 16,627.50 | " G. Ex.. | 16,627.50 |  | ..... |  |  |
| Charles Gross Memorial (1910), . . | 1,635.67 | Interest . . . | 84.25 | " Books . | 5.49 |  | ..... | 1,714.48 | |
| George Silsbee and Ellen Sever Hale Fund (balance), | 411.83 | Trans.from Fd. | 311.01 | " " . . | 200.04 |  | ..... | 522.80 | |
| Edward H. Hall (1913), | 10,504.15 | Interest . . . | 540.95 | " " . . | 444.24 |  | ..... | 10,600.86 | |
| Frederic Hilborn Hall Memorial (1916), . . . . . | ..... | Gift Cap. . . | 5,000.00 | | | | | | |
|  | ..... | Interest . . . | 219.75 | " " . . | 38.63 |  | ..... | 5,186.12 | |
| Haven (1844), | 3,128.36 | " . . . | 161.09 | " " . . | 82.99 |  | ..... | 3,206.46 | |
| Hayes (1885), | 10,367.25 | " . . . | 538.38 | " " . . | 549.82 |  | ..... | 10,840.81 | |
| Hayward (1864), | 5,482.05 | " . . . | 282.32 | " " . . | 90.94 |  | ..... | 5,673.43 | |
| R. M. Hodges (balance), | 2,108.34 | " . . . | 108.56 | | | | | | |
|  | ..... | Trans.from Fd. | 895.68 | " Sp. Ex.. | 235.76 |  | ..... | 2,876.82 | |
| Hollis (1774), | 2,467.46 | Interest . . . | 127.05 | " Books . | 149.22 |  | ..... | 2,445.29 | |
| Amounts carried forward, \$15,749,073.20 | | | | | | | | | \$308,472.68 \$17,098,899.88 |

LIBRARY (continued)

| | Principal, July 1, 1916 | Receipts | Expenditures | Suspense June 30, 1917 | Principal, Totals June 30, 1917 |
|---|----------------------------|---------------------------|--------------------------|------------------------|---------------------------------------|
| Amounts brought forward, \$15,749,073.20 | | | | | \$808,472.68 \$17,098,859.88 |
| Homer (1871), | 2,151.18 | Interest . . . \$110.78 | Lib. Books . . . \$70.09 | ..... | 2,191.87 |
| Jarvis (1885), | 520.81 | " 26.83 | " " 42.28 | ..... | 505.36 |
| Horatio King Fund (1913), . . . | 10,098.79 | " 519.84 | " " 199.37 | ..... |  |
| Kittridge Anniversary Fund (1913), | 4,337.26 | " 228.35 | Annuities . . . 408.75 | ..... | 10,010.51 |
| Lane (1869), | 5,439.85 | " 280.16 | Lib. Books . . . 237.45 | ..... | 4,338.16 |
| George C. Lodge and Joseph Trumbull Stickney Memorial Book Fund (1911), | 3,439.98 | " 177.16 | " " 116.64 | ..... | 3,500.50 |
| Lowell (1881), | 31,182.82 | " 1,805.92 | " " 858.99 | ..... | 31,984.75 |
| Francis Cabot Lowell (1911), . . | 10,587.39 | " 545.28 | " " 401.49 | ..... | 10,781.18 |
| James Jackson Lowell (1917), . . | ..... | Gift Cap. . . . 20,000.00 | " " . . . . . | ..... |  |
| Minot (1870), | 60,888.74 | Interest 400.72 | " " 19.06 | ..... | 20,381.66 |
| Charles Eliot Norton (1905), . . | 9,372.63 | " 3,185.78 | " " 1,388.82 | ..... | 62,685.70 |
| Lucy Osgood (1878), | 7,389.86 | " 482.71 | " " 242.81 | ..... | 9,613.08 |
| Mary Osgood (1860), | 7,181.53 | " 380.58 | " " 266.09 | ..... | 7,504.35 |
| Francis Parkman Memorial (1908), | 6,043.59 | " 367.30 | " " 146.77 | ..... | 7,352.06 |
| George F. Parkman (for books) (1909), | 25,381.93 | " 279.52 | " " 280.84 | ..... | 6,092.27 |
| B. Osgood Peirce (1916), . . . . | ..... | Gift Cap. . . . 1,807.19 | " " 1,480.20 | ..... | 25,258.92 |
| James Mills Peirce Bequest (bal.), | 583.02 | Interest 88.87 | " " . . . . . | ..... | 1,088.37 |
| | | " 80.02 | " " 19.12 | ..... | 593.92 |

| | | | | | | | |
|---|------------|-----------------|-----------|--------------|-----------|--------------|-----------------|
| Charles Elliott Perkins Memorial, Hugo Reisinger (1916), . . . . | ..... | Gift | 1,000.00 | Lib. Books . | 698.40 | Cr. \$979.86 | 32.74 |
| Sales (1892), | 2,528.40 | Interest . . . | 180.19 | " " | 48.88 | ..... | 2,609.71 |
| Salisbury (1868), | 8,950.62 | " | 203.48 | " " | 242.25 | Dr. \$4.82 | 8,916.67 |
| Stephen Salisbury (1907), | 5,638.04 | " | 290.10 | " " | 37.80 | ..... | 5,885.84 |
| Sever (1878), | 5,120.00 | " | 263.68 | " G. Ex. . | 263.68 | ..... | 5,120.00 |
| Shapleigh (1801), | 20,822.56 | " | 1,072.38 | " Books . | 870.58 | ..... | 21,024.41 |
| Robert Gould Shaw (1916), . . | 4,051.85 | " | 208.68 | " " | 186.88 | ..... | 4,074.15 |
| | 48,800.00 | Gift Cap. . . | 1,200.00 | | | | |
| Amey Richmond Sheldon (1909), | 306,718.28 | Interest . . . | 2,610.00 | " Sp. Ex. . | 1,869.50 | ..... | 50,740.50 |
| Clement Lawrence Smith (1916), | 1,009.05 | " | 15,795.98 | " G. " . | 18,542.48 | ..... | 808,971.78 |
| George B. Sohier Income for Books (balance), | | " | 51.96 | " Books . | 5.11 | ..... | 1,055.90 |
| Strobel Memorial, Class of 1877 (1909), | 160.68 | Trans. from Fd. | 128.38 | " " | 207.03 | ..... | 77.03 |
| Strobel Memorial, Siam (1909), . . | 3,130.28 | Interest . . . | 161.20 | " " | 47.63 | ..... | 3,243.81 |
| Subscription for Library (1859), . . | 2,115.18 | " | 108.92 | " " | 32.61 | ..... | 2,191.49 |
| Sumner (1875), | 10,657.81 | " | 548.89 | " " | 453.40 | ..... | 10,753.30 |
| Kenneth Matheson Taylor (1899), | 38,695.05 | " | 1,992.79 | " " | 1,106.68 | ..... | 39,579.16 |
| Elizabeth Torrey Bequest (1896), | 5,118.16 | " | 268.58 | " " | 100.05 | ..... | 5,281.69 |
| Daniel Treadwell (1885), | 1,457.16 | " | 75.04 | " " | 207.92 | ..... | 1,324.28 |
| | 12,052.33 | " | 620.68 | " " | 240.80 | ..... |  |
| John Harvey Treat Book Fund (1911), | | | | " G. Ex. . | 310.84 | ..... | 12,132.37 |
| Ichabod Tucker (1875), | 42,115.70 | " | 2,614.22 | Lib. Books . | 1,199.54 | ..... | 43,530.38 |
| 20th Mass. Regiment of Volunteer Infantry (1910), | 5,248.68 | " | 225.07 | " " | 187.49 | ..... | 5,331.26 |
| | 904.76 | " | 46.61 |  |  | ..... | 951.37 |
| Amounts carried forward, \$16,453,902.07 | | | | | | | \$1,085,409.91 |
| | | | | | | | \$17,098,829.38 |

LIBRARY (continued)

| | Principal, July 1, 1916 | Receipts | Expenditures | Suspense June 30, 1917 | Principal, June 30, 1917 | Totals |
|---|----------------------------|--------------------|-------------------------------|---------------------------|-----------------------------|-----------------|
| Amounts brought forward, \$15,749,073.20 | | | | | \$803,472.68 | \$17,098,829.33 |
| Homer (1871), | 2,151.18 | Interest | \$110.78 Lib. Books | \$70.09 | 2,191.87 | |
| Jarvis (1886), | 520.81 | " | 26.83 " | 42.28 | 505.86 | |
| Horatio King Fund (1913), | 10,098.79 | " | 519.84 " | 199.37 | | |
| Kittridge Anniversary Fund (1913), | 4,337.26 | " | 223.35 Lib. Books | 237.45 | 10,010.51 | |
| Lane (1868), | 5,439.85 | " | 280.16 " | 317.68 | 4,323.16 | |
| George C. Lodge and Joseph Trumbull Stickney Memorial Book Fund (1911), | 3,439.98 | " | 177.16 " | 116.64 | 3,500.50 | |
| Lowell (1881), | 31,182.82 | " | 1,605.92 " | 853.99 | 31,984.75 | |
| Francis Cabot Lowell (1911), | 10,587.39 | " | 545.28 " | 401.49 | 10,731.18 | |
| James Jackson Lowell (1917), . . . . . | ..... | Gift Cap. | 20,000.00 | | | |
| Minot (1870), | 60,888.74 | Interest | 400.72 " | 19.06 | 20,381.66 | |
| Charles Eliot Norton (1905), | 9,872.63 | " | 3,185.78 " | 1,388.82 | 62,685.70 | |
| Lucy Osgood (1873), | 7,889.86 | " | 482.71 " | 242.31 | 9,613.08 | |
| Mary Osgood (1860), | 7,131.53 | " | 380.58 " | 266.09 | 7,504.35 | |
| Francois Parkman Memorial (1908), | 6,043.59 | " | 367.30 " | 146.77 | 7,352.08 | |
| George F. Parkman (for books) (1909), | 25,381.93 | " | 279.52 " | 230.84 | 6,092.27 | |
| B. Osgood Peirce (1916), . . . . . | ..... | Gift Cap. | 1,807.19 " | 1,480.20 | 25,258.92 | |
| James Mills Peirce Bequest (bal.), | 583.02 | Interest | 1,000.00 | | 1,088.37 | |
| | | " | 38.87 " . . . . . | ..... | 598.92 | |
| | | " | 30.02 " | 19.12 | | |

| | | | | | | |
|--|-----------------|-----------|--------------|-----------|--------------|-----------------|
| Charles Elliott Perkins Memorial, | Gift . . . | 1,000.00 | Lib. Books . | 698.40 | Cr. \$378.86 | 32.74 |
| Hugo Reisinger (1916), . . . | Interest . . | 180.19 | " " | 48.88 | ..... | 2,609.71 |
| Sales (1899), | " . . . | 203.48 | " " | 242.26 | Dr. \$4.82 | 3,916.67 |
| Salisbury (1868), | " . . . | 280.10 | " " | 37.80 | ..... | 5,885.84 |
| Stephen Salisbury (1907), . . . | " . . . | 263.68 | " G. Ex. . | 263.68 | ..... | 5,120.00 |
| Sever (1878), | " . . . | 1,072.38 | " Books . | 870.53 | ..... | 21,024.41 |
| Shapleigh (1801), | " . . . | 208.68 | " " | 186.88 | ..... | 4,074.15 |
| Robert Gould Shaw (1916), . . | Gift Cap. . . | 1,200.00 | " " | ..... | ..... | ..... |
| | Interest . . | 2,610.00 | " Sp. Ex. . | 1,869.50 | ..... | 50,740.50 |
| Amey Richmond Sheldon (1909), | " . . . | 15,795.98 | " G. " . | 18,542.43 | ..... | 808,971.78 |
| Clement Lawrence Smith (1916), | " . . . | 51.96 | " Books . | 5.11 | ..... | 1,055.90 |
| George B. Sohier Income for | | | | | | |
| Books (balance), | Trans. from Fd. | 123.88 | " " | 207.03 | ..... | 77.03 |
| Strobel Memorial, Class of 1877 | | | | | | |
| (1909), | Interest . . | 161.20 | " " | 47.63 | ..... | 3,243.81 |
| Strobel Memorial, Siam (1909), . | " . . . | 108.92 | " " | 32.61 | ..... | 2,191.49 |
| Subscription for Library (1859), . | " . . . | 548.89 | " " | 453.40 | ..... | 10,753.80 |
| Sumner (1875), | " . . . | 1,992.79 | " " | 1,108.68 | ..... | 89,579.16 |
| Kenneth Matheson Taylor (1899), | " . . . | 263.58 | " " | 100.05 | ..... | 5,281.69 |
| Elizabeth Torrey Bequest (1896), | " . . . | 75.04 | " " | 207.92 | ..... | 1,324.28 |
| Daniel Treadwell (1885), | " . . . | 620.68 | " " | 240.80 | ..... | ..... |
| | | | " G. Ex. . | 310.34 | ..... | 12,122.37 |
| John Harvey Treat Book Fund | | | | | | |
| (1911), | " . . . | 2,614.22 | Lib. Books . | 1,199.54 | ..... | 43,530.38 |
| Iohabod Tucker (1875), | " . . . | 225.07 | " " | 137.49 | ..... | 5,331.26 |
| 20th Mass. Regiment of Volunteer | | | | | | |
| Infantry (1910), | " . . . | 46.61 | " " | ..... | ..... | 951.37 |
| Amounts carried forward, \$16,483,902.07 | | | | | | \$1,085,409.91 |
| | | | | | | \$17,098,829.33 |

LIBRARY (continued)

| | <i>Principal, July 1, 1916</i> | <i>Receipts</i> | <i>Expenditures</i> | <i>Suspense June 30, 1917</i> | <i>Totals</i> |
|--|------------------------------------|--------------------------|---------------------|-------------------------------|---------------|
| Amounts brought forward, \$16,453,902.07 | | | | | |
| Wales Income for Books (balance), . | 548.70 | Trans. from Fd. \$300.00 | Lib. Books . | \$182.95 | 665.75 |
| Walker (1875), | 16,368.83 | Interest . . . | " " | 691.18 | 16,520.65 |
| Ward (1858), | 5,508.38 | " . . . | " " | 248.55 | 5,543.49 |
| Julian Palmer Welsh Memorial (1910), | 3,148.46 | " . . . | " " | | 3,088.92 |
| J. Huntington Wolcott (1891), . | 20,548.63 | " . . . | " " | 570.39 | 21,086.51 |
| Chauncey Wright (1894), . . . | 1,246.78 | " . . . | " " | 65.56 | 1,245.44 |
| Eben Wright (1833), | 100,000.00 | " . . . | G. Ex. . | 5,150.00 | 100,000.00 |
| Sundry gifts for books (balances), . | 11,560.73 | Gifts . . . | 13,742.23 | | 11,879.59 |
| Duplicate money, | 537.97 | Interest . . . | Books . | 18,685.98 | 438.85 |
| Fines, | 817.97 | Sales . . . | " " | 1,485.27 | 307.34 |
| Gifts for equipment of the Library, . | 3,091.09 | Fines . . . | " " | 639.92 | 2,846.31 |
| Gift for equipment of rest room at Library, | 35.11 | Interest . . . | Sp. Ex. | 587.18 | 30.11 |
| Gift for frame for Chaucer portrait, Anonymous gift for services, | 164.50 | " | " " | 5.00 | 145.54 |
| Gift for Winsor Memorial Room Li- brary Map collection, | 18.92 | Gift | " " | 300.00 | |
| | | " | " " | 18.92 | 1,198,953.41 |

DIVINITY SCHOOL

| | | | | | |
|---------------------------------|-----------|----------------|----------|---------------|-------------|
| New Endowment (1879), | 71,427.02 | Gift Cap. . . | \$950.00 | | |
| Oliver Ames (1880), | 17,000.00 | Interest . . . | 3,680.40 | Div. G. Ex. . | 3,680.40 |
| Hannah O. Andrews (1886), . . . | 525.00 | " | 875.50 | " " | 875.50 |
| | | " | 27.04 | " " | 27.04 |
| | | | | | \$71,877.02 |
| | | | | | 17,000.00 |
| | | | | | 525.00 |

| | | | | | | | |
|--|------------|----------------|----------|----------------|----------|-------|------------------------------|
| Daniel Austin (1890), | 1,115.26 | Interest . . . | 57.42 | Div. G. Ex. . | 57.42 | ..... | 1,115.26 |
| Adams Ayer (1869), | 1,000.00 | " . . . | 51.50 | " " " | 51.50 | ..... | 1,000.00 |
| Joseph Baker (1876), | 15,275.00 | " . . . | 786.66 | " " " | 786.66 | ..... | 15,275.00 |
| Beneficiary money returned (balance), | 322.42 | " . . . | 16.58 |  | ..... | ..... | 322.42 |
| Eushton Dashwood Burr (1894), | 4,514.61 | " . . . | 282.52 | " Sp. " " | 121.44 | ..... | 4,625.69 |
| Bussey Professorship (1862), . . . | 37,583.74 | " . . . | 1,935.58 | " Sal. . . . | 1,935.58 | ..... | 37,583.74 |
| Joshua Clapp (1836), | 2,177.95 | " . . . | 112.17 | " G. Ex. . | 112.17 | ..... | 2,177.95 |
| Edwin Conant (1892), | 5,000.00 | " . . . | 257.50 | " " " | 257.50 | ..... | 5,000.00 |
| Dexter Lectureship (1810), | 25,544.37 | " . . . | 1,315.52 | " Sal. . . . | 1,315.52 | ..... | 25,544.37 |
| Frothingham Professorship (1892), | 58,703.14 | " . . . | 3,023.20 | " " " " | 3,023.20 | ..... | 58,703.14 |
| Abraham W. Fuller (1847), . . . | 1,050.00 | " . . . | 54.08 | " G. Ex. . | 54.08 | ..... | 1,050.00 |
| Lewis Gould (1852), | 911.84 | " . . . | 46.92 | " " " " | 46.92 | ..... | 911.84 |
| Louisa J. Hall (1893), | 6,169.45 | " . . . | 317.70 | Div. Sp. Ex. | 318.65 | ..... | 6,168.50 |
| Hancock Professorship, | 6,008.48 | " . . . | 309.41 | " Sal. . . . | 309.41 | ..... | 6,008.48 |
| Composed of these Funds:— | | | | | | | |
| Thomas Hancock (1765), | | | | | | | |
| Stephen Sewall (1762). | | | | | | | |
| Charles L. Hancock (1891), . . . | 152,369.76 | " . . . | 8,454.68 | Coll. G. Ex. . | 5,264.04 | ..... | 152,369.76 |
| | | | | Div. Sal. . . | 3,190.59 | ..... | 5,000.00 |
| Haven (1898), | 5,000.00 | " . . . | 257.50 | " G. Ex. . | 257.50 | ..... | 5,000.00 |
| Samuel Hoar (1857), | 1,050.00 | " . . . | 54.08 | " " " " | 54.08 | ..... | 1,050.00 |
| Hollis Professorship of Divinity, . . | 34,517.60 | " . . . | 1,777.68 | " Sal. . . . | 1,777.68 | ..... | 34,517.60 |
| Composed of these Funds:— | | | | | | | |
| William Dunmer (1762), | | | | | | | |
| Daniel Hinchman (1742), | | | | | | | |
| Thomas Hollis (1721), | | | | | | | |
| Jonathan Mason (1798), | | | | | | | |
| James Townsend (1738). | | | | | | | |
| Amounts carried forward, \$17,064,263.23 | | | | | | | |
| | | | | | | | \$447,641.80 \$18,297,782.74 |

DIVINITY SCHOOL (continued)

| | Principal, July 1, 1916 | Receipts | Expenditures | Suspense | Principal, June 30, 1917 | Totals |
|--|----------------------------|--------------------|----------------------------|----------|-----------------------------|-----------------|
| Amounts brought forward, \$17,064,268.28 | | | | | \$447,641.80 | \$18,397,782.74 |
| Henry P. Kidder (1881), | 10,000.00 | Interest | 515.00 Div. G. Ex. | 515.00 | | 10,000.00 |
| Henry Lilenow (1841), | 9,184.69 | " | 478.08 " " " | 478.08 | | 9,184.69 |
| Caroline Merriam (1867), | 1,050.00 | " | 54.08 " " " | 54.08 | | 1,050.00 |
| Parkman Professorship (1814), . . | 16,015.81 | " | 824.82 " Sal. | 824.82 | | 16,015.81 |
| Francis Greenwood Peabody Pro- fessorship (1917), | | Gift Cap. | 25,352.67 | | | |
| | | Interest | 198.18 " " " | 198.18 | | 25,352.67 |
| John W. Quinby (1888), | 664.21 | " | 34.20 " Sp. Ex. | 34.20 | | 678.41 |
| Abby Crocker Richmond (1881), . | 1,000.00 | " | 51.50 " G. " | 51.50 | | 1,000.00 |
| John L. Russell (1890), | 1,000.00 | " | 51.50 " " " | 51.50 | | 1,000.00 |
| William B. Spooner (1890), . . . | 10,000.00 | " | 515.00 " " " | 515.00 | | 10,000.00 |
| Thomas Tileston of New York Endowment (1879), | 40,000.00 | " | 2,060.00 " " " | 2,060.00 | | 40,000.00 |
| Mary P. Townsend (1861), | 5,250.00 | " | 270.88 " " " | 270.88 | | 5,250.00 |
| Winthrop Ward (1862), | 2,100.00 | " | 108.15 " " " | 108.15 | | 2,100.00 |
| Winn Professorship (1877), | 61,845.78 | " | 3,159.32 " " " | 3,159.32 | | 61,845.78 |
| Augustus Woodbury Bequest (1909), | 1,088.20 | " | 58.46 " " " | 58.46 | | 1,088.20 |
| Gifts for Library purposes, | 2,896.16 | Gift | 4,648.20 " Sp. " | 3,536.05 | | 4,018.31 |
| Gift Printing Report of 100th Anniver- sary of Divinity School, | | " | 25.00 " " " | 25.00 | | |
| Gifts for salaries, | 500.00 | " | 1,000.00 " Sal. | 1,500.00 | | |
| | | | | | | 686,175.62 |

SCHOLARSHIP AND BENEFICIARY

| | | | | | | |
|--|----------|--------------------|----------|----------------------|-------|------------|
| Robert Charles Billings Prize (1904), | 2,871.88 | Interest | \$147.91 | Div. Prize | 50.00 | \$2,969.79 |
|--|----------|--------------------|----------|----------------------|-------|------------|

| | | | | | | | |
|---|-----------|----------------|--------|---------------|--------|-------|-----------|
| Abner W. Buttrick (1880), | 13,880.39 | Interest . . . | 714.82 | Div. Sch. . . | 640.00 | ..... | 13,955.21 |
| Thomas Cary (1830), | 6,022.44 | " . . . | 310.18 | " " | 299.55 | ..... | 6,088.02 |
| George Chapman (1834), | 3,059.25 | " . . . | 157.54 | " " | 200.00 | ..... | 3,016.79 |
| Joshua Clapp (1839), | 4,812.73 | " . . . | 247.87 | " " | 176.20 | ..... | 4,884.40 |
| Jackson Foundation (1835), | 15,856.92 | " . . . | 816.64 | " " | 759.49 | ..... | 15,914.07 |
| J. Henry Kendall (1863), | 6,128.82 | " . . . | 315.64 | " " | 394.59 | ..... | 6,109.87 |
| Nancy Kendall (1846), | 3,753.47 | " . . . | 198.28 | " " | 214.69 | ..... | 3,782.06 |
| John C. Kimball (1912), | 517.97 | " . . . | 26.68 | " " | 14.76 | ..... | 529.89 |
| William Pomroy (1885), | 1,067.76 | " . . . | 55.00 | " " | 50.72 | ..... | 1,072.04 |
| <hr/> | | | | | | | |
| | | | | | | | 58,217.14 |

LAW SCHOOL

| | | | | | | | |
|---|------------|----------------|----------|-------------|----------|-------|-----------------|
| Ames (1910), | 10,944.75 | Interest . . . | \$563.67 | Law Sp. Ex. | 944.75 | ..... | \$10,563.67 |
| Samuel Ames Bequest (1916), . . | 2,000.00 | " . . . | 103.00 | " " | 103.00 | ..... | 2,000.00 |
| James and Augusta Barnard | | | | | | | |
| Law (1912), | 106,355.51 | " . . . | 5,230.05 | " " | | | |
| | | Cap. Gain . | 249.50 | " " | 5,280.05 | ..... | 106,605.01 |
| Bemis Professorship (1879), | 109,646.97 | Interest . . . | 5,646.82 | " Sal. . . | 5,646.82 | ..... | 109,646.97 |
| Bussey Professorship (1862), | 23,979.82 | " . . . | 1,284.97 |  |  | ..... | 25,214.79 |
| James C. Carter Professorship | | | | | | | |
| (1906), | 107,325.02 | " . . . | 5,527.24 | " " | 5,527.24 | ..... | 107,325.02 |
| Dane Professorship (1829), | 15,750.00 | " . . . | 811.13 |  |  | ..... | 16,561.13 |
| Royall Professorship (1781), | 8,340.81 | " . . . | 429.56 | " " | 429.56 | ..... | 8,340.81 |
| Ezra Ripley Thayer Teaching | | | | | | | |
| Fellowship (1915), | 25,784.25 | " . . . | 1,327.88 | " " | 1,000.00 | ..... | 26,112.13 |
| Weld Professorship (1882), | 94,994.97 | " . . . | 4,892.24 | " " | 4,892.24 | ..... | 94,994.97 |
| <hr/> | | | | | | | |
| Amounts carried forward, \$17,789,401.76 | | | | | | | \$19,499,540.00 |

LAW SCHOOL (continued)

| | Principal, July 1, 1916 | Receipts | Expenditures | Principal, Suspense June 30, 1917 | Totals |
|--|----------------------------|----------------|---------------------|--------------------------------------|-----------------|
| Amounts brought forward, \$17,789,401.76 | | | | | \$19,499,540.00 |
| BOOK FUNDS | | | | | |
| Gift of James Munson Barnard | | | | | |
| and Augusta Barnard (balance), | 1,049.50 | Interest . . . | \$31.09 Law Sp. Ex. | \$44.11 | \$1,086.48 |
| John L. Cadwalader (1914), . . | 20,000.00 | " . . . | 1,080.00 " " | 1,080.00 | 20,000.00 |
| Law School Book (1898), | 47,021.25 | " . . . | 2,421.58 " " | 2,421.58 | 47,021.25 |
| Law School Library (1898), | 100,000.00 | " . . . | 5,150.00 " " | 5,150.00 | 100,000.00 |
| | | | | | 168,057.73 |

SCHOLARSHIP, BENEFICIARY, AND PRIZE

| | | | | | |
|--------------------------------------|----------------|---------------------|---------------------|--------|------------|
| James Barr Ames Loan (1904), . . | Repayments . | \$32.86 Law B. F. . | 82.86 | | |
| James Barr Ames Prize (1898), . | Interest . . . | 256.06 | | | \$5,227.69 |
| Addison Brown Prize (1914), . . | " . . . | 144.10 " Prize . . | 138.20 | | 2,808.47 |
| James Coolidge Carter Loan | | | | | |
| (1906), | 14,266.04 | " . . . | 784.70 | | |
| | Repayments . | 147.72 " B. F. . . | 734.70 | | 14,418.76 |
| Samuel Phillips Prescott Fay, | | | | | |
| 1798, Fund and Scholarship (1907), . | 5,859.70 | Interest . . . | 276.04 " Sch. . . | 225.00 | 5,410.74 |
| George Fisher Scholarship (1906), . | 4,086.09 | " . . . | 210.43 " " | 236.09 | 4,080.48 |
| Harvard Club of San Francisco, . . | | Gift . . . | 500.00 " " | 500.00 | |
| Hughes Loan (1908), | | Repayments . | 210.32 " B. F. . . | 210.32 | |
| Langdell (1909), | 27,542.82 | Interest . . . | 1,418.41 " Sch. . . | 862.50 | 28,098.98 |
| Harry Milton Levy Loan (Law) | | | | | |
| (balance), | | Repayments . | 198.70 " B. F. . . | 198.70 | |

| | | | | | | |
|---|--------------------|----------------|--------------|-------------|----------|-----------|
| M. J. and Jennie Mack Loan (1916), | Gift | 1,000.00 | | | | |
| | Interest | 38.47 | | | | 1,088.47 |
| Research Scholarship, | Gift | 500.00 | Law Sch. . . | 500.00 | | |
| Scholarship Money Returned, | 853.24 | Repayments . | 2,493.25 | " B. F. . . | 2,603.43 | 743.07 |
| Joshua Montgomery Sears, Jr. Memorial Fund for Prizes (1913), . | 36,569.96 | Interest . . . | 1,853.85 | " Prize . . | 1,500.00 | 98,724.17 |

SCHOOLS OF ARCHITECTURE AND LANDSCAPE ARCHITECTURE

| | | | | | | |
|--|-------------|-----------------|------------|---------------|-----------|-----------------|
| Julia Amory Appleton Fellow- ship (1906), | \$33,317.11 | Interest . . . | \$1,200.83 | | | \$34,517.94 |
| The Depts. of Architecture and Land- scape Architecture Additions Fund (1916), | 204,465.75 | " | 10,530.00 | | | |
| | | Gifts | 18,150.62 | | | 223,146.37 |
| Gift for purchase of Bond Collection, . Bright Scholarship, | | Gift | 1,298.54 | Arch. Sp. Ex. | 1,298.54 | |
| | | Trans. from Fd. | 250.00 | " Sch. | 250.00 | |
| Francis H. Cummings Scholarship (1898), | 6,880.39 | Interest . . . | 354.32 | " " . | 300.00 | 6,934.71 |
| Charles Eliot Travelling Fellowship (1916), | 27,003.62 | " | 1,390.71 | | | 28,394.33 |
| Revere Family Memorial (1913), . | 20,439.42 | " | 1,032.61 | " Sp. Ex. | 741.36 | 20,750.67 |
| Nelson Robinson, Jr. (1899), . . | 575,000.00 | " | 29,612.50 | " G. " | 28,612.50 | 580,000.00 |
| | | " | 1,000.00 | " Fell. | 1,000.00 | |
| Arthur Rotch (1895), | 25,000.00 | " | 1,287.50 | " G. Ex. | 1,287.50 | 25,000.00 |
| Gurdon Saltonstall (1901), . . . | 60,000.00 | " | 3,090.00 | " " " | 3,090.00 | 60,000.00 |
| Josiah Stickney (1899), | 11,791.87 | " | 607.29 | " " " | 607.29 | 11,791.87 |
| Amounts carried forward, \$19,007,817.22 | | | | | | \$20,751,857.79 |

SCHOOLS OF ENGINEERING AND MINING

| | <i>Principal, July 1, 1916</i> | <i>Receipts</i> | <i>Expenditures</i> | <i>Principal, Suspense June 30, 1917</i> | <i>Totals</i> |
|--|------------------------------------|-------------------------|--------------------------|--|-----------------|
| Amounts brought forward, \$19,007,817.22 | | | | | \$20,751,857.79 |
| Hennen Jennings Scholarship (1898), | 12,251.50 | Interest . . . \$680.93 | | 12,832.43 | |
| Henry Weidemann Locke Scholarship. Gift (balance), | 200.00 | Gift . . . 100.00 | Eng. Sch. . . \$100.00 | 200.00 | |
| Edward Dyer Peters Scholarship (balance), | 250.00 | | Min. " . . 250.00 | | |
| Professorship of Engineering (1847), | 40,805.78 | Interest . . . 2,101.51 | Engin. Sal. . . 2,101.51 | 40,805.78 | |
| Gift Ernest B. Dane — Research in Sanitary Engineering, | 1,268.78 | " . . . 24.07 | " Sp. Ex. 92.03 | 1,200.83 | |
| Gift for Laboratory of Metallurgical Chemistry, | 18.97 | | | 18.97 | |
| Gift Summer course Mining Camp, | 1,045.18 | " . . . 43.59 | Min. " . . 17.50 | 1,071.27 | |
| Edward Whitney Bequest (1916), | 15,000.00 | " . . . 864.17 | Eng. G. " 864.17 | | |
| | | Cap. Loss . . 2,858.00 | | 12,142.00 | 68,316.23 |

GRADUATE SCHOOL OF BUSINESS ADMINISTRATION

| | | | | | |
|--|-------------|---------------------------|--------------------------|-------------|--|
| Business School Endowment (1912), | \$59,120.00 | Interest . . . \$3,165.60 | | | |
| | | Gifts Cap. . . 4,100.00 | Gr.Bus. G.Ex. \$3,165.60 | \$63,230.00 | |
| Edmund Cogswell Converse Professorship of Banking (1912), | 133,387.04 | Interest . . . 6,869.43 | " " Sal. . 5,500.00 | | |
| | | " . . . 6,437.50 | " " Sp.Ex. 432.00 | 134,324.47 | |
| James J. Hill (1916), | 125,000.00 | " . . . 6,437.50 | " " G. " 6,437.50 | 126,000.00 | |
| James J. Hill Professorship of Transportation (1915), | 126,333.68 | " . . . 6,508.20 | " " Sal. . 6,000.00 | 126,839.78 | |

| | | | | | | | |
|---|-----------|----------------|-----------|-----------------|-----------|-------|------------------------|
| Isidor Straus Memorial (1912), . . . | 10,016.31 | Interest . . . | 515.93 | Gr. Bus. Sal. . | 500.00 | ..... | 10,032.13 |
| Deficit Fund, | 3,700.00 | Gifts . . . | 11,950.00 | " " G.Ex. | 13,450.00 | ..... | 2,200.00 |
| Business School Loan Fund, | 1,205.58 | Interest . . . | 24.16 | | | | |
| | | Gifts | 125.00 | | | | |
| | | Repayments . | 674.66 | | | | |
| | | From Gen'l | | | | | |
| | | Income . | 300.00 | " " B. F. | 675.00 | ..... | 1,654.40 |
| | 62.13 | Sales . . . | 62.74 |  |  | ..... | 124.87 |
| Business School Publication Fund, . . | | | | | | | |
| Bureau of Business Research Publica- | 162.92 | " | 223.34 | " " Sp.Ex. | 338.96 | ..... | 47.30 |
| tion Fund, | | Gifts . . . | 175.00 | " " G. | 175.00 | ..... |  |
| Gifts for general purposes, | | " | 3,050.00 | " " " | 3,050.00 | ..... |  |
| Gifts under the guarantee, | | " | 100.00 | " " Sp. | 139.54 | ..... | 206.48 |
| Gift for Books on Transportation, . . | 245.97 | Gift | | " " " | 17.86 | ..... | 34.55 |
| Gift of P. E. Fitzpatrick for Books, | 51.91 |  |  |  |  | ..... | 25.00 |
| Gift for Hodgson Prize, | 25.00 | | | | | | |
| Gift of George B. Leighton, for | | | | " " " | 90.70 | ..... | .25 |
| binding books, | 90.95 | " | 150.00 | " " B.F. | 150.00 | ..... |  |
| Gift for George O. May Prizes, . . | | | | | | | |
| Gift of Frederick L. and John C. | | | | " " " | | | |
| Olmsted, Books on Accounting, . | 157.64 | " | 325.00 | " " Sp.Ex. | 87.98 | ..... | 394.66 |
| Gifts for Printing Courses, | | " | 100.00 | " " " | 100.00 | ..... |  |
| Gift of Warren D. Robbins — | | | | | | | |
| South American Course, | 40.13 | | | " " " | 9.35 | ..... | 30.78 |
| Gift for Books and other Material on | | | | | | | |
| Scientific Management, | 2.15 |  |  |  |  | ..... | 2.15 |
| Gift of John R. Simpson for Books, | 77.67 | " | 75.00 | " " " | 57.90 | ..... | 94.77 |
| Gift of Joseph E. Sterrett, Books | | | | | | | |
| on Accounting, | 242.26 | | | " " " | 13.55 | ..... | 228.71 |
| Amounts carried forward, \$19,538,573.62 | | | | | | | 464,460.25 |
| | | | | | | | \$21,284,634.27 |

MUSEUM OF COMPARATIVE ZOOLOGY

| | <i>Principal, July 1, 1916</i> | <i>Receipts</i> | <i>Expenditures</i> | <i>Suspense June 30, 1917</i> | <i>Principal, Totals</i> |
|---|------------------------------------|-----------------------------------|------------------------|-------------------------------|------------------------------|
| Amounts brought forward, \$19,538,578.62 | | | | | \$21,284,694.27 |
| Alexander Agassiz Bequest (1910), | 99,500.00 | Interest . . . \$2,915.52 | | | |
| | | Allowance from Univ. . . 2,208.78 | M.C.Z.G.Ex. \$5,124.25 | | \$99,500.00 |
| Alexander Agassiz Bequest for Publications (1910), | 85,102.71 | Interest . . . 4,382.80 | " Sp. " 2,548.41 | | 86,987.10 |
| Agassiz Memorial (1876), | 297,988.10 | " . . . 15,948.55 | " G. " 15,848.55 | | 297,988.10 |
| George R. Agassiz (1911), | 50,000.00 | " . . . 2,575.00 | " " 2,575.00 | | 50,000.00 |
| George R. Agassiz Special (1912), | 50,000.00 | " . . . 2,575.00 | " " 2,575.00 | | 50,000.00 |
| Louis Cabot (1917) | ..... | Gift Cap. . . 5,000.00 | | | |
| | | Interest . . . 107.94 | | | 5,107.94 |
| Virginia Barret Gibbs Scholarship (1892), | 6,728.42 | " . . . 346.23 | " Sp. " 275.00 | | 6,794.65 |
| Gray Fund for Zoological Museum (1859), | 50,000.00 | " . . . 2,575.00 | " G. " 2,575.00 | | 50,000.00 |
| Sturgis Hooper (1865), | 107,534.41 | " . . . 5,598.00 | " Sp. " 5,654.28 | | 107,418.18 |
| Humboldt (1869), | 8,379.69 | " . . . 481.57 | " " 387.18 | | 8,474.13 |
| Willard Peele Hunnewell (1901), | 5,605.49 | " . . . 288.66 | " " 288.66 | | 5,605.49 |
| Permanent (1859), | 117,469.84 | " . . . 6,049.67 | " G. " 6,049.67 | | 117,469.84 |
| Teachers' and Pupils' (1875), | 7,594.01 | " . . . 391.09 | " " 391.09 | | 7,594.01 |
| Maria Whitney (1907), | 6,408.94 | " . . . 329.81 | " Sp. " 290.79 | | 6,442.96 |
| Maria Whitney and James Lyman Whitney (1912), | 274.01 | " . . . 15.96 | | | |
| | | Gift Cap. . . 51.41 | | | 341.38 |
| | | | | | 899,618.28 |

GERMANIC MUSEUM

| | | | | | | | |
|---|-------------|----------------|----------|------------------|-----------|-------|-------------|
| Germanic Museum (1909), | \$10,013.52 | Interest . . . | \$515.72 | Ger. Mus. G. Ex. | \$515.72 | ..... | \$10,013.52 |
| Germanic Museum Building (1908), . | 121,026.18 | " . . . | 1,655.37 | F. & G. Sp. | 66,434.47 | ..... | 56,247.08 |
| Germanic Museum Endowment (1909), | 68,574.76 | " . . . | 3,531.61 | Ger. Mus. G. Ex. | 1,898.82 | ..... | 70,213.05 |
| Emperor William (1906), | 26,335.00 | " . . . | 1,856.25 | " " | 1,856.25 | ..... | 26,335.00 |
| Hugo Reisinger Bequest (1916), . . | 25,283.55 | " . . . | 1,302.13 | ..... | ..... | ..... | 26,585.68 |
| Gift for work of art, | 1,633.76 | " . . . | 66.15 | " Sp. | 300.00 | ..... | 1,419.91 |
| Gifts for Collections for Germanic Museum, | 322.52 | ..... | ..... | ..... | ..... | ..... | 322.52 |
| | | | | | | | 191,186.76 |

PEABODY MUSEUM OF AMERICAN ARCHAEOLOGY AND ETHNOLOGY

| | | | | | | | |
|---|------------|----------------|----------|--------------|----------|-------|-----------------|
| Henry W. Haynes Bequest (1912), | \$1,000.00 | Interest . . . | \$51.50 | P. M. G. Ex. | \$51.50 | ..... | \$1,000.00 |
| Hemenway Fellowship (1891), . . | 18,238.16 | " . . . | 681.24 | " Sp. | 575.00 | ..... | 18,384.40 |
| Mary Hemenway Fund for Arch- aeology (1910), | 45,737.02 | " . . . | 2,358.03 | " " | 1,800.00 | ..... | 46,345.85 |
| Francis Cabot Lowell Memo- rial (1912), | 1,000.00 | Interest . . . | 51.50 | G. " | 51.50 | ..... | 1,000.00 |
| Peabody Building (1866), | 28,355.56 | " . . . | 1,489.73 | " " | 1,489.73 | ..... | 28,355.56 |
| Peabody Collection (1866), | 47,335.10 | " . . . | 2,486.81 | " " | 2,486.81 | ..... | 47,335.10 |
| Peabody Professor (1866), | 47,335.10 | " . . . | 2,486.81 | " " | 2,486.81 | ..... | 47,335.10 |
| Frederic Ward Putnam (1915), | 12.80 | " . . . | 3.45 | ..... | ..... | ..... | 202.89 |
| Thaw Fellowship (1890), | 80,188.72 | Gift Cap. . . | 187.14 | " Sp. | 1,190.42 | ..... | 80,204.16 |
| Amounts carried forward, \$20,398,544.99 | | Interest . . . | 1,203.86 | " " | ..... | ..... | \$215,113.06 |
| | | | | | | | \$32,375,389.81 |

PEABODY MUSEUM OF AMERICAN ARCHAEOLOGY (continued)

| | Principal, July 1, 1916 | Receipts | Expenditures | Suspense June 30, 1917 | Principal, June 30, 1917 | Totals |
|--|----------------------------|----------------|---------------------|------------------------|-----------------------------|-----------------|
| Amounts brought forward, | \$30,898,544.99 | | | | \$215,113.06 | \$23,875,389.81 |
| Henry C. Warren Exploration (1899), | 10,208.06 | Interest . . . | 525.71 P.M. Sp. Ex. | 591.89 | | 10,141.88 |
| Susan Cornelia Warren (1902), | 5,000.00 | " . . . | 257.50 " G. " | 257.50 | | 5,000.00 |
| Robert C. Winthrop Scholarship (1895), | 6,944.05 | " . . . | 357.62 " Sp. " | 335.00 | | 6,976.67 |
| Huntington Frothingham Wolcott (1891), | 20,054.08 | " . . . | 1,032.78 " " " | 508.80 | | 20,578.06 |
| Gifts for current use, | 1,775.00 | Gifts . . . | 8,111.89 " " " | 6,864.55 | | 3,031.74 |
| | | | | | | 260,831.41 |

MEDICAL SCHOOL

| | | | | | | |
|---|------------|----------------|---------------------|----------|--|------------|
| Harvard Medical Alumni (1907), | \$8,864.61 | Interest . . . | \$456.55 | | | \$9,321.16 |
| Anonymous Fund in the Department of Theory and Practice (1906), | 10,868.78 | " . . . | 533.75 Med. Sal. . | \$533.75 | | 10,868.78 |
| Edward Austin (Bacteriological Laboratory) (1899), | 10,718.12 | " . . . | 551.73 " Sp. Ex. | 516.78 | | 10,748.11 |
| Edward M. Barringer (1881), | 30,271.54 | " . . . | 1,559.00 " Sal. . . | 1,059.00 | | |
| | | | " Sch. | 500.00 | | 80,371.54 |
| Francis Bartlett Free Bed (1914), | 5,000.00 | " . . . | 257.50 " Sp. Ex. | 257.50 | | 5,000.00 |
| Robert C. Billings (1900), | 100,000.00 | " . . . | 5,000.00 " G. " | 5,000.00 | | 100,000.00 |
| J. Ingersoll Bowditch (1889), | 10,032.05 | " . . . | 516.18 " Sp. " | 490.27 | | 10,047.91 |
| Boylston Fund for Medical Books (1800), | 1,777.45 | " . . . | 91.53 | | | 1,868.97 |
| Brinkerhoff Fund (1911), | 5,320.83 | " . . . | 278.98 | | | 5,594.81 |

| | | | | | | | |
|---|------------|----------------|-----------|-------------------------------|-----------|-------|------------------------|
| John B. and Buckminster Brown Endowment (1896), | 68,295.80 | Interest . . . | 3,406.44 | Med. Sal. . . | 3,000.00 | ..... | 68,701.24 |
| Bullard Professorship of Neuro- pathology (1906), | 86,562.63 | " . . . | 4,458.00 | " " . . | 4,521.00 | ..... | 86,499.63 |
| Herbert L. Burrell (1914), . . . | 5,905.69 | " . . . | 804.16 | " " . . | 282.98 | ..... | 5,905.69 |
| | | | | " Sp. Ex. . | 71.18 | ..... |  |
| Memorial Cancer Hospital Endowment (1910), | 186,822.66 | " . . . | 7,046.38 | " " . . | 9,214.81 | ..... | 184,654.23 |
| Memorial Cancer Hospital New Lab- oratory (1917) Fund, . . . . . | ..... | Gift | 10,000.00 |  |  | ..... |  |
| | | Interest . . . | 132.15 |  |  | ..... | 10,132.15 |
| Memorial Cancer Hospital Proctor Maintenance (1912), | 9,056.97 | " . . . | 362.28 |  |  | ..... | 9,419.25 |
| Memorial Cancer Hospital Research Fund, | 24,583.40 | " . . . | 575.59 | " " . . | 55,500.00 | ..... |  |
| | | Gifts | 51,400.00 | Trans. to L. C. Fondo Fund | 10,000.00 | ..... | 11,058.99 |
| Memorial Cancer Hospital Subscrip- tions for current expenses, . . . . . | ..... | " . . . . | 14,155.00 | Med. Sp. Ex. | 14,155.00 | ..... |  |
| T. Jefferson Coolidge for Cancer Research (1915), | 2,000.00 | Interest . . . | 103.00 | " " . . | 108.00 | ..... | 2,000.00 |
| Caroline Brewer Croft (1899), . . | 92,025.00 | " . . . | 4,739.29 | " " . . | 4,739.29 | ..... | 92,025.00 |
| Dr. John C. Cutter Bequest (1910), | 15,761.88 | " . . . | 811.69 | " " . . | 862.08 | ..... |  |
| | | Royalties . . | 47.21 | Annuity . . | 416.94 | ..... | 15,841.81 |
| Dr. Henry Isaiah Dorr Chair of Research and Teaching in Anaes- thetics and Anaesthesia (1917), . . . | ..... | Gift Cap. . . | 70,000.00 |  |  | ..... | 70,000.00 |
| | | Interest . . . | 837.50 | " . . | 837.50 | ..... |  |
| Amounts carried forward, \$21,565,873.09 | | | | | | | \$689,453.77 |
| | | | | | | | \$22,636,220.72 |

MEDICAL SCHOOL (continued)

| | Principal, July 1, 1916 | Receipts | Expenditures | Principal, June 30, 1917 | Totals |
|---|----------------------------|---|--------------|-----------------------------|--------------|
| Amounts brought forward, \$21,565,878.09 | 12,897.38 | Gift Cap. . . \$100.00 | | | \$689,453.77 |
| Thomas Dwight Memorial (1912), | | Interest . . . 688.11 Med. Sp. Ex. \$645.00 | | | 13,020.49 |
| Calvin and Lucy Ellis (1899), | 397,561.51 | " . . . 21,995.95 " Sal. . . 20,788.70 | | | |
| William Endicott (1916), . . . | 25,000.00 | Cap. Gain . . 4,923.96 F. & G. Sp. 165.75 | | | 408,576.97 |
| George Fabyan Foundation for Comparative Pathology (1906), . . | 227,877.05 | Interest . . . 1,287.50 Med. Sp. Ex. 1,287.50 | | | 25,000.00 |
| George Fabyan Foundation Spe- cial (1910), | 12,277.34 | " . . . 11,735.66 " Sal. . . 6,225.00 | | | 281,612.71 |
| Charles F. Farrington (1909), . | 51,863.92 | " . . . 632.26 " " 680.44 | | | 12,239.16 |
| Lawrence Carteret Fenno (1911), | 10,000.00 | " . . . 2,671.00 " Sal. . . 1,500.00 | | | 51,891.28 |
| | | " . . . 1,030.00 " Sp. Ex. 1,143.64 | | | |
| | | Trans. from | | | |
| | | Research Lab'y | | | |
| | | Fund . . . 10,000.00 " " 1,080.00 | | | 20,000.00 |
| Lawrence Carteret Fenno Me- morial Free Bed Fund (1912), . . | 5,000.00 | Interest . . . 257.50 " " 257.50 | | | 5,000.00 |
| Samuel E. Fitz (1894), | 1,836.08 | " . . . 94.55 " G. " 94.55 | | | 1,836.08 |
| Flattery Research (1915), | 11,842.00 | " . . . 877.16 " Sp. " 750.00 | | | 11,969.16 |
| George W. Gay Lecture Fund Medi- cal Ethics (1917), | | Gift Cap. . . 1,000.00 | | | 1,000.00 |
| Rebecca A. Greene (1911), . . . | 55,120.80 | Interest . . . 2,838.73 " G. " 2,838.73 | | | 55,120.80 |

| | | | | | |
|--|---------------|---------------|------------|---------------|-----------------|
| F. B. Greenough (Surgical Research) (1901), | 6,241.98 | Interest. . . | 821.46 | ..... | 6,563.44 |
| George Higginson Professorship (1902), | 109,408.70 | " . . . | 5,634.56 | Med. Sal. . . | 110,043.26 |
| John Homans Memorial (1906), . | 52,239.80 | " . . . | 2,690.36 | " " . . | 52,239.80 |
| Franklin H. Hooper Memorial Free Bed Fund (1911), | 5,000.00 | " . . . | 257.50 | " Sp. Ex. | 5,000.00 |
| Amos Lawrence Hopkins Free Bed Fund (1913), | 5,000.00 | " . . . | 257.50 | " " . . | 5,000.00 |
| Silas Arnold Houghton Assistant Professorship in Bacteriology (1917), | 50,020.34 | Gift Cap. . . | 25,000.00 | | |
| George S. Hyde (1913), | Interest. . . | 433.32 | " Sal. . . | 300.00 | 25,133.32 |
| Jackson Professorship of Clinical Medicine (1859), | " . . . | 2,576.03 | " G. Ex. | 2,576.03 | 50,020.34 |
| Henry Jackson Endowment (1903), . | 69,192.65 | " . . . | 3,563.44 | " Sal. . . | 69,192.65 |
| | 104,608.65 | " . . . | 5,387.36 | " " . . | 8,000.00 |
| | Gift . . . | 155.33 | " Sp. Ex. | 8,077.99 | 104,073.35 |
| Hamilton Kuhn Memorial (1908), . | 191,249.73 | Interest. . . | 9,849.38 | " Sal. . . | 9,856.91 |
| Walter Augustus Lecompte Professorship of Otology (1907), . . . | 54,398.12 | " . . . | 2,801.50 | " " . . | 1,500.00 |
| | | | " Sp. Ex. | 684.38 | 56,015.24 |
| Maria D. Lookwood Memorial (1915), | 50,728.58 | " . . . | 2,612.54 | " " . . | 2,612.54 |
| Harriet Newell Lowell (1907), . | 3,935.36 | " . . . | 65.34 | " " . . | 1,493.47 |
| Medical Library (1873), | 2,471.41 | " . . . | 137.26 | ..... | 2,598.67 |
| Charles S. Minot (1915), | 2,110.07 | " . . . | 106.66 | ..... | 2,218.78 |
| Julia M. Moseley (1915), | 28,250.00 | " . . . | 875.00 | " " . . | 875.00 |
| William O. Moseley (1897), . . . | 53,854.82 | " . . . | 2,773.53 | " Sal. . . | 2,435.49 |
| Amounts carried forward, \$23,160,859.38 | | | | | \$2,831,230.09 |
| | | | | | \$22,636,220.72 |

MEDICAL SCHOOL (continued)

| | Principal, July 1, 1916 | Receipts | Expenditures | Suspense June 30, 1917 | Principal, Totals |
|---|----------------------------|---------------------------|------------------------|------------------------|--------------------------------|
| Amounts brought forward, \$28,160,859.38 | | | | | \$2,381,280.09 \$22,686,280.72 |
| New Subscription (1888), | 38,850.00 | Interest . . . \$2,000.78 | Med. G. Ex. \$2,000.78 | ..... | 38,850.00 |
| Lyman Nichols (1907), | 10,020.18 | " . . . 516.08 | " " " 516.08 | ..... | 10,020.18 |
| George F. Parkman (Medical (1910), | 8,581.40 | " . . . 441.92 | " Sal. . . 441.92 | ..... | 8,581.40 |
| Gift for Pathological Laboratory, . . . | 7,054.78 | " . . . 868.38 | " Sp. Ex. 624.49 | ..... | 6,793.62 |
| Clara Endicott Payson Memo- rial Free Bed Fund (1911), | 5,000.00 | " . . . 257.50 | " " " 257.50 | ..... | 5,000.00 |
| Henry L. Pierce (Residuary (1898), | 39,216.62 | " . . . 2,019.67 | " G. " 2,019.67 | ..... | 39,216.62 |
| Proctor (1908), | 50,738.70 | " . . . 2,613.06 | " Sp. " 2,433.33 | ..... | 50,918.44 |
| Emily J. Proctor Gift (1914), . . | 2,800.51 | " . . . 112.02 | " " " 412.02 | ..... | 2,500.51 |
| Maurice Howe Richardson Me- morial (1916), | 3,175.00 | " . . . 163.51 | " " " 163.51 | ..... | 3,175.00 |
| John D. Rockefeller Gift (1902), . 1,000,000.00 | | " . . . 51,500.00 | " G. " 51,500.00 | ..... | 1,000,000.00 |
| Dr. Ruppner (1897), | 9,835.94 | " . . . 480.80 | " " " 480.80 | ..... | 9,835.94 |
| School of Comparative Medicine (1899), Gardiner Hubbard Scudder (1914), | 7,791.50 | " . . . 401.29 | " Sal. . . 401.29 | ..... | 7,791.50 |
| Henry Francis Sears Fund for Pathology (1907), | 10,184.97 | " . . . 524.53 | Annunities . . 664.97 | ..... | 10,044.53 |
| Frederick C. Shattuck (1916), . 102,287.65 | | " . . . 1,829.80 | Med. Sal. . . 188.17 | ..... | 35,287.19 |
| George O. Shattuck (1853), | 77,000.00 | " . . . 5,267.83 | " Sp. Ex. . 1,884.94 | ..... | 107,555.48 |
| | | " . . . 3,965.50 | ..... | ..... |  |
| Gift Cap. . . 25,000.00 | | " Sal. . . 3,965.50 | ..... | ..... | 102,000.00 |

| | | | | | | | |
|---|------------|----------------|-----------|---------------|----------|-------|---------------------------------------|
| James Skillen Memorial Fund (1907), | 11,311.10 | Interest . . . | 582.52 | Med. G. Ex. . | 582.52 | ..... | 11,311.10 |
| Francis Skinner (1914), | 43,900.96 | " . . . | 2,265.06 | " " " " | " " " " | ..... | 43,561.74 |
| | | Gift Cap. . . | 260.78 | " " " " | " " " " | ..... |  |
| James Stillman Professorship (1902), | 119,378.86 | Interest . . . | 6,148.02 | " Sal. . . | 6,148.02 | ..... | 119,378.86 |
| Surgical Laboratory (1897), | 5,585.54 | " . . . | 287.68 | " " " " | " " " " | ..... |  |
| | | Gift | 1,000.00 | " Sp. Ex. . | 1,311.08 | ..... | 5,562.14 |
| Mary W. Swett (1894), | 15,765.11 | Interest . . . | 811.90 | " G. " " | 811.90 | ..... | 15,765.11 |
| Samuel W. Swett (1884), | 20,000.00 | " . . . | 1,080.00 | " " " " | 1,080.00 | ..... | 20,000.00 |
| William H. Thorndike (1895), | 6,059.19 | " . . . | 312.04 | " Sp. " " | 312.04 | ..... | 6,059.19 |
| Quincy Tufts (1879), | 2,000.00 | " . . . | 103.00 | " G. " " | 103.00 | ..... | 2,000.00 |
| Zoe D. Underhill Research (1912), . . . | 10,000.00 | " . . . | 515.00 | " Sp. " " | 515.00 | ..... | 10,000.00 |
| Warren Fund for Anatomical Museum (1848), | 14,371.11 | " . . . | 740.10 | " " " " | " " " " | ..... | 15,111.21 |
| James O. White Bequest (1916), . . . | ..... | Gift Cap. . . | 5,000.00 | " " " " | " " " " | ..... |  |
| | | Interest . . . | 75.50 | " " " " | " " " " | ..... | 5,075.50 |
| Edward Wigglesworth Professorship of Dermatology (1907), . . | 61,159.86 | " . . . | 3,149.74 | " Sal. . . | 2,500.00 | ..... | 61,329.60 |
| | | " . . . | 2,748.04 | " Sp. Ex. . | 480.00 | ..... | 53,708.28 |
| Charles Wilder (1900), | 53,860.24 | " . . . | 2,961.66 | " Annuities . | 2,400.00 | ..... | 53,708.28 |
| Henry Willard Williams (1898), | 57,507.73 | " . . . | 2,961.66 | " Med. Sal. . | 1,900.00 | ..... | 58,569.89 |
| Morrill Wyman Medical Research (1915), | 108,191.44 | Interest . . . | 6,254.18 | " " " " | 5,000.00 | ..... |  |
| | | Gift Cap. . . | 30,502.07 | " Sp. Ex. . | 1,254.18 | ..... | 138,698.51 |
| Gifts for salaries, | 200.00 | Gift | 5,000.00 | " Sal. . . | 5,000.00 | ..... | 200.00 |
| Harvard Medical Alumni Gifts, . . . . | ..... | " . . . . | 3,000.00 | " " " " | 3,000.00 | ..... | ..... |
| Amounts carried forward, \$25,091,618.27 | | | | | | | \$4,389,626.13 \$22,636,220.72 |

MEDICAL SCHOOL (continued)

| | Principal, July 1, 1916 | Receipts | Expenditures | Suspense June 30, 1917 | Principal, June 30, 1917 | Totals |
|---|----------------------------|-----------------------|---------------------|------------------------|-----------------------------|-----------------|
| Amounts brought forward, \$25,091,618.27 | | | | | \$4,339,636.18 | \$22,636,230.72 |
| Aesculapian Club Gift — Medical School, | | Gift 200.00 | | | | |
| | | Other credits 400.00 | Med. Sp. Ex. 291.47 | | 308.53 | |
| | | Gift 257.50 | " " " 257.50 | | | |
| | 444.01 | | " " " 28.49 | | 415.52 | |
| Gift for Flag Pole, | | | | | | |
| Gift for Recreation Grounds, | | | | | | |
| Dept. of Anatomy — Gift for salary of artist, | 10.42 | " 1,500.00 | " " " 1,080.00 | | 430.42 | |
| Dept. Bacteriology — Gift, A.B.C. . . | 300.00 | " 1,800.00 | " " " 1,114.09 | | 485.91 | |
| Dept. Bacteriology — Gift H. S. F., Assistant for Dr. Bowie, | | " 360.00 | " " " 69.63 | | 290.37 | |
| Dept. Bacteriology — Gift Rockefeller Institute for Medical Research, . . | | " 187.50 | | | 187.50 | |
| Dept. of Bacteriology — W. H. Walker Gift, | 80.11 | | | | 80.11 | |
| Dept. of Bacteriology — John G. Wright Gift, | 38.69 | | | | 38.69 | |
| Dept. Comparative Pathology — Gift for Investigation of Milk Infections, . . | | " 1,000.00 | | | 1,000.00 | |
| Dept. of Comparative Pathology — Gift of Mass. Society for Promoting Agriculture, | | | | | | |
| Dept. of Diseases of Nervous System — Gifts, William N. and Katherine E. Bullard, | 2,473.48 | Interest . . . 107.38 | | | 2,580.86 | |
| | 863.58 | Gift 500.00 | | | | |
| | | Interest . . . 17.16 | " " " 728.42 | | | 642.32 |

| | | | | | | | | | |
|--|-----------|----------------|----------|--------------|----------|-------|-------|-------|-----------|
| Dept. of Diseases of Nervous System — | | | | | | | | | |
| Gift Dr. W. N. Bullard for study | | | | | | | | | |
| of Pellagra, | 1,073.01 | Interest . . . | 42.92 | ..... | ..... | ..... | ..... | ..... | 1,115.93 |
| Library — Duplicate Book Fund, . . . | 536.67 | " . . . | 21.47 | ..... | ..... | ..... | ..... | ..... | 557.14 |
| | | Sales . . . | 29.00 | ..... | ..... | ..... | ..... | ..... |  |
| " Gifts for Charles B. Porter | | | | | | | | | |
| Hall, | 51.96 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 51.96 |
| " Alpha Omega Alpha Gift, . . | 16.00 | Gift . . . | 8.00 | Med. Sp. Ex. | 16.00 | ..... | ..... | ..... | 8.00 |
| Dept. of Ophthalmology — Gift, Lab- | 66.24 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 66.24 |
| oratory of Physiological Optics, . . |  | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |
| Dept. of Pathology — Morrill Wyman | 131.57 | ..... | ..... | " " " | 35.25 | ..... | ..... | ..... | 96.32 |
| Gift, . . . . . |  | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |
| Dept. of Preventive Medicine & Hygiene |  | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |
| — Gift for Investigation of Infantile | 6,980.12 | Interest . . . | 164.79 | " " " | 3,019.92 | ..... | ..... | ..... | 4,124.99 |
| Paralysis, . . . . . |  | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |
| Dept. of Preventive Medicine & Hygiene | | Gift . . . | 5,000.00 | ..... | ..... | ..... | ..... | ..... |  |
| — Gift National Cannery Association | | Interest . . . | 72.31 | " " " | 2,482.17 | ..... | ..... | ..... | 2,590.14 |
| for investigation of food poisoning, . |  | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |
| Dept. of Preventive Medicine & Hygiene | 18,591.07 | " . . . | 545.80 | ..... | ..... | ..... | ..... | ..... |  |
| — Gift for Research, | | Gift . . . | 6,000.00 | ..... | ..... | ..... | ..... | ..... |  |
| | | Sales . . . | 214.33 | " " " | 898.74 | ..... | ..... | ..... | 24,456.86 |
| Dept. of Syphilology — Gift Aesculapian | 190.00 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 190.00 |
| Club for research work, . . . . . |  | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |
| Dept. of Surgery — Gifts for Surgical | 710.22 | Interest . . . | 16.09 | " " " | 11.10 | ..... | ..... | ..... | 815.21 |
| Library, | | Gift . . . | 100.00 | " " " | ..... | ..... | ..... | ..... |  |
| Amounts carried forward, \$25,124,165.42 | | | | | | | | | |
| \$4,370,189.15 \$22,636,220.72 | | | | | | | | | |

MEDICAL SCHOOL (continued)

| | <i>Principal, July 1, 1916</i> | <i>Receipts</i> | <i>Expenditures</i> | <i>Suspense June 30, 1917</i> | <i>Principal, Totals</i> |
|--|------------------------------------|--------------------|----------------------------|-------------------------------|------------------------------|
| Amounts brought forward, \$25,124,165.42 | | | | \$4,870,189.15 | \$22,636,290.72 |
| Dept. of Surgery — Gift for X-Ray Apparatus, | 1,191.54 | Interest | 21.51 Med. Sp. Ex. | 267.49 | 945.56 |
| Dept. of Surgical Pathology — Gift of J. A. L. Blake, | 8.17 | Receipts | 46.60 " " " | 1.85 | 8.17 |
| Repayments to Anatomical Laboratory, | | | | | 44.75 |
| Repayments to Bacteriological Laboratory, | | | 2.15 " " " | 2.15 | |
| Repayments to Biological-Chemical Laboratory, | | | 866.64 " " " | 866.64 | |
| Repayments to Comparative Pathological Laboratory, | | | 12.00 " " " | 12.00 | |
| Repayments to Dept. of Medicine Laboratory, | | | 5.40 " " " | 5.40 | |
| Repayments to Neuropathological Laboratory, | 700.52 | | 4,022.85 " " " | 4,022.85 | 700.52 |
| Repayments to Physiological Laboratory, | | | 609.63 " " " | 609.63 | |
| Repayments to Dept. of Preventive Medicine & Hygiene Laboratory, | | | 13.10 " " " | 13.10 | |
| Repayments to Syphilological Laboratory, | | | 3,061.20 " " " | 3,061.20 | |
| Aesculapian Club Gift, | 121.20 | | | | 121.20 |
| Anonymous Gift for Investigation of Diabetes Mellitus, | 67.38 | | | | 67.38 |

MEDICAL SCHOOL (continued)

| <i>Principal, July 1, 1916</i> | <i>Receipts</i> | <i>Expenditures</i> | <i>Principal, June 30, 1917</i> | <i>Totals</i> |
|---|-----------------|-------------------------|-------------------------------------|-----------------|
| Amounts brought forward, \$26,822,277.82 | | | | \$27,197,457.89 |
| SCHOLARSHIP | | | | |
| Lucius F. Billings (1900), . . . | 5,659.84 | Interest . . . \$291.49 | Med. Sch. . . \$250.00 | \$5,701.33 |
| David Williams Cheever (1889), . | 6,239.55 | " . . . 321.36 | " . . . 275.00 | 6,285.91 |
| Loan Fund of the Medical Class of 1879, | 583.85 | " . . . 28.35 | | 607.20 |
| Cotting Gift (1900), | 3,584.05 | " . . . 184.57 | " . . . 150.00 | 3,618.62 |
| Frederic Shurtleff Coolidge (1916), | ..... | Gift . . . 500.00 | | 500.00 |
| Orlando W. Doe (1899), | 3,329.00 | Interest . . . 171.44 | " . . . 125.00 | 3,875.44 |
| John Foster Income for Medical Students (balance), | 31.41 | Trans. from Fd. 190.40 | " . . . 150.00 | 71.81 |
| George Haven (1913), | 24,197.61 | Interest . . . 1,246.61 | " . . . 975.00 | 24,469.22 |
| Lewis and Harriet Hayden (1894), | 6,159.98 | " . . . 317.24 | " . . . 250.00 | 6,227.22 |
| William Otis Johnson (1911), . . | 4,401.51 | " . . . 226.70 | " . . . 175.00 | 4,458.21 |
| Claudius M. Jones (1898), . . . | 7,246.08 | " . . . 378.17 | " . . . 300.00 | 7,319.25 |
| Alfred Hosmer Linder (1895), . . | 5,958.09 | " . . . 306.84 | " . . . 250.00 | 6,014.93 |
| J. Ewing Mears Gift, . . . . . | ..... | Gift . . . 235.00 | " . . . 225.00 | ..... |
| Joseph Pearson Oliver (1904), . . | 9,424.27 | Interest . . . 485.34 | " . . . 400.00 | 9,509.61 |
| Charles B. Porter (1897), | 6,222.25 | " . . . 320.43 | " . . . 275.00 | 6,267.68 |
| Francis Skinner (1905), | 5,576.87 | " . . . 287.21 |  | ..... |
| | | Repayments . 8.50 | " B. F. . 350.00 | 5,517.58 |
| Charles Pratt Strong (1894), . . . | 5,640.55 | Interest . . . 290.51 | " Sch. . . 260.00 | 5,681.06 |
| Isaac Sweetser (1892), | 7,271.26 | " . . . 374.46 | " . . . 325.00 | 7,330.72 |

| | | | | | | |
|-----------------------------------|----------|----------------|--------|---------------|--------|----------|
| John Thomson Taylor (1899), . . . | 5,800.07 | Interest . . . | 298.70 | Med. Sch. . . | 250.00 | 5,848.77 |
| Edward Wigglesworth (1897), . . . | 5,993.32 | " . . . | 308.64 | " . . . | 250.00 | 6,051.96 |

PRIZE

| | | | | | | |
|----------------------------|----------|---------|--------|--------------|-------|----------|
| Boylston (1808), | 5,446.28 | " . . . | 280.47 | Med. Prize . | 12.50 | 5,714.20 |
|----------------------------|----------|---------|--------|--------------|-------|----------|

GRADUATE SCHOOL OF MEDICINE

| | | | | | | |
|---|-----------|----------------|----------|--------------|-----------|-----------|
| Gifts Department of Tropical Medicine, | 4,159.27 | Interest . . . | \$13.09 | | | |
| | | Gifts | 8,700.00 | | | |
| | | Sales | 14.75 | Med. Sp. Ex. | 12,602.09 | \$285.02 |
| Gift for special use, Dept. Trop. Med., | 15,545.70 | Interest . . . | 705.66 | | | |
| | | Gift | 5,000.00 | | | |
| | | | | | | 21,251.36 |
| | | | | | | 21,536.88 |

185

DENTAL SCHOOL

| | | | | | | |
|--|-----------|----------------|-----------|---------------|--------|-----------------------------|
| John D. Bryant (1912), | 11,296.38 | Interest . . . | \$581.74 | Dent. Sp. Ex. | 290.87 | \$11,587.35 |
| Dental School Endowment (1880), . . | 9,487.87 | " . . . | 486.05 | " G. " | 486.05 | 9,487.87 |
| Dental School Endowment (1911), . . | 16,640.00 | " . . . | 992.76 | | | |
| | | Gift Cap. . . | 10,100.00 | " " | 992.76 | 26,740.00 |
| Dental School Endowment of the Class of 1886 (1911), | 50.00 | Interest . . . | 2.57 | " " | 2.57 | 50.00 |
| Dental School Endowment of the Class of 1888 (1914), | 100.00 | " . . . | 5.15 | " " | 5.15 | 100.00 |
| Dental School Endowment of the Class of 1907 (1914), | 10.00 | " . . . | .52 | " " | .52 | 10.00 |
| Amounts carried forward, \$25,498,282.88 | | | | | | \$47,925.12 \$27,889,549.79 |

MEDICAL SCHOOL (continued)

| | Principal, July 1, 1916 | Receipts | Expenditures | Principal, June 30, 1917 | Totals |
|---|----------------------------|-------------------------|------------------------|-----------------------------|-----------------|
| Amounts brought forward, \$25,822,277.83 | | | | | \$27,197,457.69 |
| SCHOLARSHIP | | | | | |
| Lucius F. Billings (1900), | 5,659.84 | Interest . . . \$291.49 | Med. Sch. . . \$250.00 | ..... | \$5,701.33 |
| David Williams Cheever (1889), . | 6,239.55 | " 391.86 | " " . . 275.00 | ..... | 6,285.91 |
| Loan Fund of the Medical Class of 1879, | 538.85 | " 28.35 | ..... | ..... | 607.20 |
| Cotting Gift (1900), | 3,584.05 | " 184.57 | " " . . 150.00 | ..... | 3,618.62 |
| Frederic Shurtleff Coolidge (1916), ..... | ..... | Gift 500.00 | ..... | ..... | 500.00 |
| Orlando W. Doe (1898), | 3,329.00 | Interest . . . 171.44 | " " . . 125.00 | ..... | 3,375.44 |
| John Foster Income for Medical Students (balance), | 31.41 | Trans. from Fd. 190.40 | " " . . 150.00 | ..... | 71.81 |
| George Haven (1913), | 24,197.61 | Interest . . . 1,246.61 | " " . . 975.00 | ..... | 24,469.22 |
| Lewis and Harriet Hayden (1894), | 6,159.98 | " 317.24 | " " . . 250.00 | ..... | 6,237.22 |
| William Otis Johnson (1911), . . | 4,401.51 | " 296.70 | " " . . 175.00 | ..... | 4,453.21 |
| Claudius M. Jones (1898), | 7,246.08 | " 373.17 | " " . . 300.00 | ..... | 7,319.25 |
| Alfred Hosmer Linder (1898), . . | 5,958.09 | " 306.84 | " " . . 250.00 | ..... | 6,014.93 |
| J. Ewing Mears Gift, . . . . . | ..... | Gift 295.00 | " " . . 225.00 | ..... | ..... |
| Joseph Pearson Oliver (1904), . . | 9,424.27 | Interest . . . 485.34 | " " . . 400.00 | ..... | 9,509.61 |
| Charles B. Porter (1897), | 6,222.25 | " 320.48 | " " . . 275.00 | ..... | 6,267.68 |
| Francis Skinner (1905), | 5,576.87 | " 237.21 | ..... | ..... | ..... |
| | | Repayments . 8.50 | " B. F. . 350.00 | ..... | 5,517.58 |
| Charles Pratt Strong (1894), | 5,040.55 | Interest . . . 290.51 | " Sch. . . 250.00 | ..... | 5,681.06 |
| Isaac Sweetser (1892), | 7,271.26 | " 374.46 | " " . . 325.00 | ..... | 7,320.72 |

| | | | | | | | |
|--|----------|----------------|--------|---------------|--------|-------|-------------------|
| John Thomson Taylor (1899), . . . | 5,800.07 | Interest . . . | 298.70 | Med. Sch. . . | 250.00 | ..... | 5,848.77 |
| Edward Wigglesworth (1897), . . . | 5,993.32 | " . . . | 308.64 | " . . . | 250.00 | ..... | 6,051.96 |
| | | | | | | | <u>114,841.52</u> |
| PRIZE | | | | | | | |
| Boylston (1808), | 5,446.23 | " . . . | 280.47 | Med. Prize . | 12.50 | ..... | <u>5,714.20</u> |
| | | | | | | | 5,714.20 |

GRADUATE SCHOOL OF MEDICINE

| | | | | | | | |
|---|-----------|----------------|----------|--------------|-----------|-------|------------------|
| Gifts Department of Tropical Medicine, | 4,159.27 | Interest . . . | \$13.09 | | | | |
| | | Gifts | 8,700.00 | | | | |
| | | Sales | 14.75 | Med. Sp. Ex. | 12,602.09 | ..... | \$285.02 |
| Gift for special use, Dept. Trop. Med., | 15,545.70 | Interest . . . | 705.66 | | | | |
| | | Gift | 5,000.00 |  | ..... | ..... | <u>21,251.36</u> |
| | | | | | | | 21,536.88 |

DENTAL SCHOOL

| | | | | | | | |
|---|-----------|----------------|-----------|-------------|--------|-------|------------------------|
| John D. Bryant (1912), | 11,296.38 | Interest . . . | \$681.74 | Dent.Sp.Ex. | 290.87 | ..... | <u>\$11,587.35</u> |
| Dental School Endowment (1880), . . | 9,437.87 | " | 486.05 | " G. " | 486.05 | ..... | 9,487.87 |
| Dental School Endowment (1911), . . | 16,640.00 | " | 992.76 | " " | 992.76 | ..... | 26,740.00 |
| | | Gift Cap. . . | 10,100.00 | " " | | | |
| Dental School Endowment of the Class of 1886 (1911), | 50.00 | Interest . . . | 2.57 | " " | 2.57 | ..... | 50.00 |
| Dental School Endowment of the Class of 1888 (1914), | 100.00 | " | 5.15 | " " | 5.15 | ..... | 100.00 |
| Dental School Endowment of the Class of 1907 (1914), | 10.00 | " | .52 | " " | .52 | ..... | 10.00 |
| Amounts carried forward, \$25,498,282.83 | | | | | | | <u>\$47,925.12</u> |
| | | | | | | | \$27,339,549.79 |

DENTAL SCHOOL (continued)

| | Principal, July 1, 1916 | Receipts | Expenditures | Suspense June 30, 1917 | Principal, June 30, 1917 | Totals |
|--|----------------------------|--------------------------|--------------|------------------------|-----------------------------|-----------------|
| Amounts brought forward, \$26,498,282.83 | | | | | \$47,926.12 | \$27,339,649.79 |
| Dental School Endowment of the Class of 1909 (1910), | 50.00 | Interest . . . | \$2.57 | Dent. G. Ex. | \$2.57 | 50.00 |
| Harvard Dental Alumni Endowment (1906), | 6,345.33 | " . . . | 836.77 | | | |
| | | Gifts | 330.00 | " " | | 6,345.33 |
| Helen Collamore (1916), | 10,100.00 | Interest . . . | 520.15 | " " | | 10,100.00 |
| Harriet Newell Lowell, | 6,171.29 | " . . . | 118.37 | " Sp. " | 1,474.99 | 4,809.67 |
| Katherine C. Pierce Endowment (1914), | 10,511.86 | " . . . | 541.37 | " G. " | | 10,511.86 |
| Proctor Bequest (1910), | 500.00 | " . . . | 25.75 | " " | | 500.00 |
| Mary F. Russell Bequest (1916), . | 5,000.00 | " . . . | 257.50 | " " | | 5,000.00 |
| Joseph Warren Smith, Jr. Memorial (1909), | 10,325.00 | " . . . | 531.74 | " " | | 10,325.00 |
| Henry C. Warren Endowment (1889), | 23,000.00 | " . . . | 1,184.50 | " " | | 23,000.00 |
| Gifts for X-ray Apparatus, | 5.27 | | | | | 5.27 |
| | | | | | | 118,572.25 |
| OBSERVATORY | | | | | | |
| Advancement of Astronomical Science (1901), | 5,722.08 | Interest . . . | \$294.68 | | | |
| | | Repaym't by Draper Fd. . | 1,815.18 | | | |
| Advancement of Astronomical Science (1902), | 20,000.00 | Obs. Surplus | 3,412.04 | Obs. G. Ex. | 294.68 | \$10,949.30 |
| | | Interest . . . | 1,991.50 | " " | | 20,000.00 |

George B. Agassiz Gift, Revising

| | | | | | | | | | |
|-----------------------------------|------------|----------------|-----------|--------------|----------|--|--|--|------------|
| Draper Catalogue, | 632.14 | Interest . . . | 12.52 | | | | | | |
| | | Gift . . . | 1,000.00 | Obs. Sp. Ex. | 999.96 | | | | 644.70 |
| Amory Astronomical Fund (1916), . | 52,084.90 | Interest . . . | 2,852.37 |  | ..... |  |  |  | 54,767.27 |
| Thomas G. Appleton (1884), . . | 5,000.00 | " . . . | 267.50 | " G. " | 267.50 | | | | 5,000.00 |
| J. Ingersoll Bowditch (1889), . . | 2,500.00 | " . . . | 128.75 | " " " | 128.75 | | | | 2,500.00 |
| Uriah A. Boyden (1887), | 185,000.00 | " . . . | 9,527.50 | " Sp. " | 9,527.50 | | | | 185,000.00 |
| Draper Memorial (1917), . . . . | ..... | Gift Cap. . . | 15,000.00 | | | | | | |
| | | " Income . . | 9,000.00 | | | | | | |
| | | Interest . . . | 315.33 | " " " | 9,315.33 | | | | 15,000.00 |

J. Rayner Edmands Bequest

| | | | | | | | | | |
|--|------------|----------------|-----------|----------|-----------|--|--|--|-----------------|
| (1911), | 1,014.31 | " . . . | 52.22 | " G. " | 52.22 | | | | 1,014.21 |
| Charlotte Harris (1877), | 2,000.00 | " . . . | 108.00 | " " " | 108.00 | | | | 2,000.00 |
| Haven (1898), | 45,000.00 | " . . . | 2,317.50 | " " " | 2,317.50 | | | | 45,000.00 |
| James Hayward (1866), | 21,000.00 | " . . . | 1,081.50 | " " " | 1,081.50 | | | | 21,000.00 |
| Observatory Endowment (1892), . . | 50,000.00 | " . . . | 2,575.00 | " " " | 2,575.00 | | | | 50,000.00 |
| Paine Professorship (1886), | 50,000.00 | " . . . | 2,575.00 | " Sal. " | 2,575.00 | | | | 50,000.00 |
| Robert Treat Paine (1866), | 273,932.07 | " . . . | 14,107.50 | " G. " | 14,107.50 | | | | 273,932.07 |
| Edward B. Phillips (1849), | 110,293.88 | " . . . | 5,680.14 | " Sal. " | 5,680.14 | | | | 110,293.88 |
| Joshua Quincy (1866), | 11,827.34 | " . . . | 609.09 | " Sp. " | 1,185.55 | | | | 11,250.88 |
| David Sears (1845), | 26,067.42 | " . . . | 1,341.93 | " G. " | 670.96 | | | | 26,728.39 |
| David Sears (1916), | 25,000.00 | " . . . | 1,287.50 | " " " | 1,287.50 | | | | 25,000.00 |
| Augustus Story (1871), | 13,880.00 | " . . . | 689.07 | " " " | 689.07 | | | | 13,880.00 |
| Gift for publishing lunar photographs, . | 42.35 |  | ..... |  | ..... |  |  |  | 42.35 |
| Maria Mitchell Fellowship, | 1,020.29 | Gift . . . | 250.00 | " Sp. " | 495.14 | | | | 775.15 |
| E. C. Pickering Fellowship, . . . . | ..... | Interest . . . | 385.81 |  | ..... |  |  |  | 385.81 |
| Gifts for current use, . . . . . | ..... | Gifts . . . | 1,500.00 | " G. " | 1,500.00 |  |  |  | ..... |
| Amounts carried forward, \$26,471,798.26 | | | | | | | | | 924,663.51 |
| | | | | | | | | | \$26,382,785.55 |

BLUE HILL METEOROLOGICAL OBSERVATORY

| <i>Principal, July 1, 1916</i> | <i>Receipts</i> | <i>Expenditures</i> | <i>Principal, Suspense June 30, 1917</i> | <i>Totals</i> |
|---|--------------------------|------------------------|--|-----------------|
| Amounts brought forward, \$26,471,798.36 | | | | \$28,389,786.55 |
| Waldo E. Forbes (1917), | Gift Cap. . . \$6,000.00 | B.H.Obs.G.Ex. \$151.51 | | |
| | Interest . . . | | | \$6,000.00 |
| A. Lawrence Rotch Bequest (1913), | " . . . 2,632.32 | " " 904.73 | | |
| Gifts for current expenses, | Gifts . . . 5,600.00 | " " 5,600.00 | | |
| | | | | 52,841.01 |
| | | | | 58,841.01 |

BUSSEY INSTITUTION

| | | | | |
|--|---------------------------|-------------------------|--------------------|--------------|
| Bussey Institution Endowment (1913), \$98,677.00 | Interest . . . \$5,526.31 | B. I. G. Ex. \$5,526.31 | | |
| | Sale land, . . 35,000.00 | F. & G. Sp. 373.00 | | \$133,304.00 |
| Mrs. William H. Bliss (1917), | Gift Cap. . . 50,000.00 | | | 50,000.00 |
| Woodland Hill (1895), | Interest . . . 1,000.00 | " " 1,609.80 | Dr. \$609.80 | 20,658.86 |
| Priscilla Clark Hodges Scholarship (1907), | 4,428.57 | " " 225.00 | | 4,431.66 |
| Gift for Forestry Dept., | 518.67 | " " 30.75 | | 539.42 |
| Gifts expenses experimental garden in Plant Genetics and additional furnishings for dormitory, | 1,260.00 | " " 25.52 | | |
| | Gift | 500.00 | " Sp. Ex. 558.45 | 1,227.07 |
| Gift, Anna C. Ames Memorial Scholarship, | " | 425.00 | | 425.00 |
| Gifts for salaries, | " | 600.00 | " Sal. 600.00 | |
| Dept. of Forestry — Operations, | Sales | 2,842.33 | " Sp. Ex. 5,514.56 | Dr. 2,672.23 |
| | | | | 210,586.01 |

PHILLIPS BROOKS HOUSE

| | <i>Principal, July 1, 1916</i> | <i>Receipts</i> | <i>Expenditures</i> | <i>Suspense</i> | <i>Principal, June 30, 1917</i> | <i>Totals</i> |
|---|------------------------------------|--------------------------|-----------------------|-----------------|-------------------------------------|-----------------|
| Amounts brought forward, \$27,110,055.57 | | | | | | \$29,842,768.11 |
| Louise E. Betdens (1917), | | Gift Cap. . . \$2,500.00 | | | | |
| | | Interest . . . 39.89 | | | \$2,538.89 | |
| Phillips Brooks House Endowment (1901), | 10,506.66 | " . . . 541.11 | Ph.Br.Ho.Ex. \$541.11 | | 10,506.66 | |
| Phillips Brooks House Association Endowment (1917), | | Gift Cap. . . 77,067.50 | | | | |
| | | Interest . . . 20.70 | " " " 900.00 | | 76,188.20 | |
| Ralph H. Shepard (1900), | 11,848.64 | " . . . 584.22 | " " " 584.22 | | 11,848.64 | |
| Ralph Hamilton Shepard Memorial (1898), | 5,622.80 | " . . . 289.58 | " " " 29.28 | | 5,888.10 | |
| John W. and Belinda L. Randall (1897), | 7,305.53 | " . . . 376.25 | " " " 376.25 | | 7,305.53 | |
| Gift for student work at Phillips Brooks House, | | Gift . . . 200.00 | " " " 200.00 | | | 118,761.02 |

WILLIAM HAYES FOGG ART MUSEUM

| | | | | | | |
|--|-------------|---------------------------|----------------|-------------------------|-------------|--|
| William Hayes Fogg (1892), | \$50,349.69 | Interest . . . \$2,598.02 | | | | |
| | | Gifts . . . 4,325.00 | | | | |
| | | Other receipts | 600.00 | Fogg M.G.Ex. \$7,424.16 | \$50,443.55 | |
| Gray Fund for Engravings (1858), | 15,888.57 | Interest . . . 818.38 | " Sp. " 409.14 | | 16,297.71 | |
| William M. Prichard (1898), | 15,536.82 | " . . . 799.59 | " " " 1,250.00 | | 15,075.91 | |
| John Witt Randall (1892), | 30,052.79 | " . . . 1,547.73 | " " " 1,430.73 | | 30,169.79 | |
| Gift for cases to hold objects given by Edward P. Bliss, | | Gift . . . 568.21 | " " " 568.21 | | | |

Gifts from the Society of Friends of the

| | | | | | | | |
|---|----------|--------------------|----------|---------------|----------|--|------------|
| Fogg Art Museum, | 1,008.54 | Interest | 18.83 | | | | |
| | | Gifts | 7,110.00 | Fogg M.Sp.Ex. | 7,874.53 | | 267.94 |
| Gift of Mrs. Samuel Sachs for purchase of works of art, | 2,547.98 | Interest | 25.14 | | | | |
| | | Gift | 2,500.00 | " " | 4,927.98 | | 145.14 |
| Gift for purchase of water color by Sargent, . . . . . | ..... | " . . . . . | 1,000.00 | | | | |
| | | Interest | 16.55 | " " | 1,000.00 | | 16.55 |
| Gifts for wages special watchman, . . | 210.00 | ..... | ..... | " " | 210.00 |  | ..... |
| | | | | | | | 112,406.49 |

STILLMAN INFIRMARY

| | | | | | | | |
|---|------------|--------------------|----------|-----------------|----------|--|-----------------|
| Stillman Infirmary Gift (balance), | \$9,510.01 | Interest | \$489.76 | | | | \$9,999.77 |
| Robert Charles Billings, for Stillman Infirmary (1903), | 60,555.57 | " | 3,118.63 | Still.Inf.G.Ex. | 3,118.63 | | 60,555.57 |
| Free Bed Fund of the Class of 1868 (1898), | 6,376.79 | " | 328.41 | " " | 328.41 | | 6,376.79 |
| Free Bed Fund for Stillman Infirmary (1900), | 653.26 | " | 33.63 | " " | 33.63 | | 653.26 |
| Herbert Schurz Memorial Free Bed (1903), | 4,683.38 | " | 238.60 | " " | 238.60 | | 4,683.38 |
| Joseph and Lucius Tuckerman (1914), | 10,000.00 | " | 515.00 | " " | 515.00 | | 10,000.00 |
| Henry P. Walcott (1901), | 3,204.16 | " | 165.00 | " " | 165.00 | | 3,204.16 |
| Amounts carried forward, \$27,855,846.26 | | | | | | | \$29,664,353.55 |

CLASS FUNDS

| | <i>Principal, July 1, 1916</i> | <i>Receipts</i> | <i>Expenditures</i> | <i>Suspense</i> | <i>Principal, June 30, 1917</i> | <i>Totals</i> |
|--|------------------------------------|-------------------------|--------------------------------------|-----------------|-------------------------------------|-----------------|
| Amounts brought forward, \$27,355,346.26 | | | | | | |
| Fund of the Class of 1834 (1887), | 2,296.52 | Interest . . . \$109.30 | Trans. to F. J. Child Fund 17,480.89 | | \$2,405.82 | \$29,664,353.55 |
| " " 1846 (1905), | 17,480.89 | | | | | |
| " " 1853 (1887), | 3,735.00 | " . . . 158.31 | F. & G. Sp. 168.81 | | | |
| " " 1854 (1914), | 3,847.11 | " . . . 172.37 | | | 3,725.00 | |
| " " 1856 (1904), | 9,478.95 | " . . . 565.52 | | | 8,519.48 | |
| " " 1857 (1916), | | Gift Cap. . . 2,000.00 | " " 478.95 | | 11,565.52 | |
| " " 1858 (1912), | 1,428.32 | " " . . . 300.00 | " " 450.00 | Dr. 150.00 | 5,000.00 | |
| " " 1864 (1915), | 3,215.30 | " . . . 78.28 | | | 1,496.60 | |
| | | " . . . 165.57 | " " 167.41 | | 3,213.46 | 30,925.88 |

12

GIFTS FOR CONSTRUCTION

| | | | | | |
|--|------------|------------------------|----------------------|--|------------|
| Arnold Arboretum Building Gifts, . . | \$1,205.25 | Interest . . . \$62.06 | | | \$1,267.31 |
| Gift for flag pole on Stadium in memory of Dr. Milton Bettman, . . . | | Gift . . . 500.00 | | | 500.00 |
| Gray Herbarium Gift for Construction, . . | 1,181.18 | Interest . . . 45.25 | | | 1,176.43 |
| Gifts for New Gymnasium Building, . . | 10,714.87 | " . . . 428.59 | | | 11,143.46 |
| High Voltage Electrical Laboratory, . . | 12,498.37 | " . . . 871.36 | Coll. Sp. Ex. 886.82 | | 11,982.81 |
| Semitic Building (balance), | 460.18 | ..... |  |  | 460.18 |
| George Smith Bequest (1904), . . | 14,619.85 | " . . . 752.88 | Annuities . . 600.00 | | 14,772.28 |
| Gifts for Hospital—Department of Tropical Medicine, | 5,862.45 | " . . . 214.50 | | | 5,576.95 |
| | | | | | 46,879.32 |

SUNDREY

| | | | | | | |
|---|------------|--------------------|-------------|----------------|-------------|-----------------|
| Edward Austin (1899), | 490,752.88 | Interest | \$25,273.78 | Coll. Sal. . . | \$12,500.00 | |
| | | Repayments . . | 380.04 | " Fell. . . | 2,100.00 | |
| | | | | " Sch. . . | 8,800.00 | |
| | | | | " B. F. . . | 275.00 | |
| | | | | Arch. Sch. . | 950.00 | |
| | | | | Div. Sal. . . | 500.00 | |
| | | | | Med. " . . | 2,500.00 | \$493,781.70 |
| | | | | Trans. to | | |
| Bright Legacy (1880), | 50,000.00 | Interest | 2,575.00 | Coll. Sch. { | 1,037.50 | |
| | | | | Fd. } | | |
| | | | | Arch. Sch. . | 250.00 | |
| | | | | Library Fd. . | 1,387.50 | 50,000.00 |
| Bussey Trust (1861), | 392,710.18 | " | 27,882.18 | Div. G. Ex. . | 6,117.63 | |
| | | | | Law " . . | 6,117.63 | |
| | | | | B. I. " . . | 12,285.25 | |
| | | | | Annuities . . | 2,000.00 | |
| | | | | F. & G. Sp. . | 1,361.67 | 392,710.18 |
| Carnegie Foundation Retiring Allowance, . . . . . | ..... | Gifts | 63,428.60 | " . . | 63,454.43 | Dr. 25.83 |
| Calvin and Lucy Ellis Aid (1899), . | 173,854.27 | Interest . . . | 8,953.48 | Coll. Sal. . . | 6,613.31 | |
| | | Repayments . . | 5.00 | " B. F. . . | 1,892.50 | 174,306.94 |
| Horace Davis Bequest, . . . . . | ..... | ..... | ..... | F. & G. Sp. . | 451.25 | Dr. 451.25 |
| John Foster (1840), | 3,697.39 | Interest . . . | 190.40 | Trans. to Med. | 190.40 | ..... |
| | | | | | | 3,697.39 |
| Amounts carried forward, \$38,553,314.57 | | | | | | \$1,114,496.21 |
| | | | | | | \$29,742,158.75 |

SUNDRY (continued)

| | Principal, July 1, 1916 | Receipts | Expenditures | Suspense | Principal, June 30, 1917 | Totals |
|---|----------------------------|--------------------|-------------------------------------|-----------|-----------------------------|-----------------|
| Amounts brought forward, \$28,553,314.57 | | | | | \$1,114,486.21 | \$39,743,158.75 |
| Price Greenleaf (1887), | 790,195.48 | Interest | 88,255.01 { Trans. to Coll. Sch. | 3,000.00 | | |
| | | | Trans. to Coll. B. F. } | 17,627.51 | | |
| | | | Trans. to Lib. Books } | 1,000.00 | | |
| | | | Trans. to Lib. G. Ex. } | 16,627.50 | | 790,195.48 |
| Henry Harris (1883), | 29,989.88 | " | U. Ex. | 770.93 | | |
| Harvard Memorial Society (1898), . | 1,812.37 | " | Med. G. Ex. . | 770.93 | | 29,989.88 |
| William S. Murphy Scholarships (1916), | | | | | | 1,905.69 |
| | | Gift Cap. | Coll. Sch. . . | 250.00 | | |
| | | Interest | Law " . . . | 250.00 | | |
| | | | Med. " . . . | 250.00 | | |
| | | | F. & G. Sp. . | 356.00 | | 51,932.00 |
| Robert Troup Paine (1880), | 76,041.92 | " | | | | 78,769.90 |
| James Savage (1873), | 42,000.00 | " | Coll. Sch. . . | 800.00 | | |
| | | | Lib. G. Ex. . | 1,397.25 | | |
| | | | Obs. " . . . | 465.75 | | 42,000.00 |
| Frederick Sheldon (1909), | 402,690.47 | " | Coll. Fell. . . | 15,000.00 | | |
| | | | Arch. " . . . | 750.00 | | |
| | | | Med. " . . . | 1,000.00 | | 406,960.70 |
| Edward Wigglesworth Memo- rial (1909), | 150,000.00 | " | Ap. Chap. G. Ex. | 7,725.00 | | 150,000.00 |

| | | | | | |
|---|--------------------|--------------------|-------------------|----------|--------------|
| Botanic Garden — Gifts for current use, Anonymous Gifts for Botanical Mu- seum, | Gifts | 6,500.00 | Bot. G'd G. Ex. | 6,500.00 | ..... |
| | " | 2,850.00 |  |  | ..... |
| | Interest | 13.15 | Bot. M. G. Ex. | 2,863.15 | ..... |
| Gift for cases, Botanical Museum, . . | " | 84.24 |  | ..... | 890.88 |
| Gifts for Gray Herbarium — current use, Gifts for Semitic Museum, | Gifts | 1,625.00 | Gray H. G. Ex. | 1,625.00 | ..... |
| | Interest | 107.80 |  |  | ..... |
| | Other receipts | 224.90 |  | ..... | 8,027.47 |
| Gifts for Semitic Museum Collection (balance), | Interest | 16.29 | Sem. Mus. Sp. Ex. | 300.00 | ..... |
| Gift for Copying Cuneiform Tablets, . . | 226.99 | ..... |  | ..... | 226.99 |
| Gift for Publication of Volume on Babylonian Tablets, | 224.90 | ..... | " " " | 224.90 | ..... |
| Gifts for Excavations in Palestine (balance), | 2,360.84 | Interest | " " " | 1,005.40 | 1,385.28 |
| Gifts for Chinese Students (balance), . . | 107.00 | ..... | " " " | ..... | 107.00 |
| | | | | | 2,572,634.69 |

FUNDS IN TRUST FOR PURPOSES NOT CONNECTED WITH THE COLLEGE

| | | | | | | |
|-----------------------------------|--------------------|----------|---------------|----------|-------|-----------------|
| Daniel Williams (1716), | Interest | \$354.75 | F. & G. Sp. . | \$652.36 | ..... | \$16,789.26 |
| Sarah Winslow (1790), | " | 247.15 | " " " | 234.49 | ..... | 4,811.64 |
| | | | | | | 21,600.90 |
| | | | | | | \$32,436,894.34 |

SUMMARY:

| | |
|---|------------------------|
| Restricted uses, income only available | \$28,847,826.18 |
| Restricted uses, principal and income available | 1,689,264.94 |
| Unrestricted uses, income only available | 1,650,064.54 |
| Unrestricted uses, principal and income available | 739,248.68 |
| | <u>\$32,436,394.34</u> |

SCHEDULE 5, PART I

TABLE OF SIGNIFICANT INCREASES AND DECREASES

For the year ended June 30, 1917

| | Increase | Decrease |
|---|----------------|-------------|
| Investments, total, | \$2,274,050.29 | |
| Securities, Special, | \$260,800.22 | |
| Securities, General, | 1,675,802.88 | |
| Land and Buildings, Special, | | 91,831.18 |
| Land and Buildings, General, | 429,778.82 | |
| General Suspense (see Schedule 5, Part III), . . | | \$29,658.82 |
| Funds and Gifts (see Schedule 5, Part IV), . . . | \$2,861,451.09 | |
| Restricted uses, Income only available, . . . | \$2,194,236.52 | |
| " " Principal and income available | | \$29,596.78 |
| Unrestricted uses, Income only available, . . | 218,150.84 | |
| " " Principal and income avail- able, | | 21,839.49 |
| Gains and Losses on General Investments sold, . . | \$12,825.09 | |
| Income unapportioned, | \$700.22 | |

SCHEDULE 5, PART II

RESERVES FOR DEPRECIATION AND MAINTENANCE

| | | |
|--|-------------|-------------|
| Depreciation Freshman Halls, | \$10,250.00 | |
| " Yard Heat Tunnel, | 1,845.00 | |
| Maintenance Freshman Halls, | 16,792.49 | |
| " Yard Heat Tunnel, | 898.90 | \$29,781.39 |

SCHEDULE 5, PART III

SUMMARY OF CHANGES IN GENERAL SUSPENSE

| | | |
|--|--------------|-------------|
| Departments, activities, and funds having credit balances June 30, 1917, | \$161,012.04 | |
| Departments, activities, and funds having credit balances June 30, 1916, | 106,599.62 | |
| | | <hr/> |
| Increase of credit balances, | | 54,412.42 |
| Departments, activities, and funds having debit balances, June 30, 1917, | \$591,107.53 | |
| Departments, activities, and funds having debit balances June 30, 1916, | 566,353.93 | |
| | | <hr/> |
| Increase of debit balances, | | 24,753.60 |
| | | <hr/> |
| | | \$29,658.82 |
| | | <hr/> |
| Surpluses for the year carried to General Suspense, Advances returned, improvements Treasurer's Real Estate Investments, | \$52,115.78 | |
| Other advances of previous years returned, . . . | 18,362.88 | |
| Other credits, | 9,658.52 | |
| | 2,975.75 | |
| | | <hr/> |
| | \$83,107.93 | |
| <i>Less</i> Deficits for year carried to General Suspense, | \$36,512.62 | |
| Advances for improvements Treasurer's Real Estate Investments, | 9,953.83 | |
| Other advances, | 6,982.66 | |
| | 53,449.11 | |
| | | <hr/> |
| | | \$39,658.82 |
| | | <hr/> |

SCHEDULE 5, PART IV

SUMMARY OF CHANGES IN FUNDS AND GIFTS

| | | |
|---|----------------|----------------|
| Gifts for Capital, Exhibit D, page 13, | \$2,261,611.79 | |
| Sale of land, Bussey Institution Endowment, . . | 85,000.00 | |
| Repayment, in part, of advance, Henry T. Morgan Fund , | 24,585.16 | |
| Unexpended restricted income transferred to Funds and Gifts, Exhibit B, page 8, | 78,097.94 | |
| | <hr/> | |
| | \$2,399,294.89 | |
| Loss on sale of Special Investments, | 37,848.80 | |
| | | <hr/> |
| | | \$2,361,446.09 |
| | | <hr/> |

SCHEDULE 6, PART I

GENERAL SUSPENSE

CREDIT BALANCES

June 30, 1917

| July 1, 1916 | | June 30, 1917 |
|---------------------|--|---------------------|
| \$3,385.02 | Cryptogamic Herbarium, | \$3,393.51 |
| 10,835.54 | Gray Herbarium, | 11,068.26 |
| 314.05 | Graduate School of Business Administration, | 4,115.15 |
| 5,382.00 | Graduate Schools of Applied Science, | 5,651.10 |
| 1,264.35 | Summer Schools, | 4,455.86 |
| 3,474.97 | Divinity School, | 3,404.97 |
| 55,508.34 | Law School, | 76,837.96 |
| ..... | Graduate School of Medicine, | 8,620.87 |
| 17,041.44 | Museum of Comparative Zoölogy, | 23,884.80 |
| 3,238.33 | Peabody Museum of American Archaeology and Ethnology, | 3,430.23 |
| 3,909.44 | Germanic Museum, | 5,853.87 |
| 657.75 | Botanical Museum, | 1,427.10 |
| 80.57 | Botanic Garden, | 4,267.72 |
| 52.15 | Stillman Infirmary, | 52.15 |
| 420.96 | Forestry Operations at Petersham, Mass., . . . . . | ..... |
| 34.34 | Laboratory Fees, Astronomy, | 121.31 |
| ..... | " " Botany (Fernald), | 25.00 |
| 172.23 | " " Botany (Thaxter), | 244.34 |
| 35.93 | " " Forestry, | 35.93 |
| ..... | " " Geology, | 437.20 |
| 21.00 | " " Hygiene and Sanitation, . . . . . | ..... |
| 771.21 | Microscope Fees, Medical School, | 708.96 |
| ..... | Gray Estate, | 1,799.66 |
| ..... | War Hero Memorial, | 1,176.09 |
| <u>\$106,599.62</u> | | <u>\$161,012.04</u> |

SCHEDULE 6, PART II

GENERAL SUSPENSE

DEBIT BALANCES

| July 1, 1916 | June 30, 1917 | June 30, 1917 |
|--------------|--|---------------|
| | Advances from General Investments to: | |
| \$5,125.00 | Aids, general, | \$2,300.00 |
| | Bureau Economic Research, | 2.50 |
| 33,238.23 | Bussey Trust (Real Estate), | 33,044.56 |
| | Gift Carnegie Foundation, | 25.83 |
| | Classical Library Fund, | 56.01 |
| 285.69 | Classical Publication Fund of the Class of 1856, | 544.34 |
| | Class of 1857 Fund, | 150.00 |
| 876.92 | T. Jefferson Coolidge Fund for Research in Physics, | |
| 36,092.20 | Dental School, | 43,177.84 |
| 104,020.26 | Dental School Building, | 104,020.26 |
| 132.40 | Charles Dexter Memorial, | 132.40 |
| 30.56 | Fellowship, Department of Education, | |
| 28,579.38 | Estate 59-63 Franklin St. | 28,579.38 |
| 10,274.76 | " 128-136 Federal St. | 9,703.26 |
| 16,413.59 | Estate 364-366 Washington St., | 15,413.59 |
| 129.44 | Fogg Museum Exhibition Fund, | |
| | Forestry Operations at Petersham, | 2,251.27 |
| | Edwin William Friend Memorial, | 1.63 |
| | George A. Gardner Fund, | 28.93 |
| 49,241.59 | Gerrish Block, | 41,651.71 |
| 60.00 | Harvard Club of Newburyport Scholarship, | 110.00 |
| | " " New Hampshire Scholarship, | 150.00 |
| 150.00 | " " Seattle Scholarship, | |
| | " " Syracuse Scholarship, | 50.00 |
| | Harvard Economic Studies, | 816.26 |
| 19,070.52 | Harvard University Press, | 41,490.54 |
| 332.50 | Loan to Officer, | 99.13 |
| 100.00 | Menorah Society Prize, | |
| 24,843.74 | Medical School, | 29,108.47 |
| 99.67 | Graduate School of Medicine, | |
| 4,000.00 | Old Boston Music Hall Estate, | 3,000.00 |
| | Otis and Arch Streets Estate, | 1,000.00 |
| 408.11 | Peabody Museum Funds, | |
| 475.00 | " " Gifts for Special Use, | 825.00 |
| 591.89 | " " Henry C. Warren Fund, | |
| | Ambrose Talbot Bequest, | 419.53 |
| 1,615.09 | Henry Warren Torrey Fund, | 714.90 |
| | Walter R. Tower Fund, | 200.00 |
| 12,927.94 | Townsend Estate, | 10,227.94 |
| \$348,614.48 | .. Amounts carried forward, | \$369,295.28 |

| July 1, 1916 | | June 30, 1917 |
|---|--|---------------------|
| \$348,614.48 | . . . Amounts brought forward, | \$369,295.28 |
| 187,633.06 | Tunnel for steam pipes to College Buildings, | 187,915.63 |
| 19,777.45 | Webb Estate, | 23,428.45 |
| 8,324.13 | Woodland Hill Fund, | 8,933.93 |
| 127.06 | Laboratory Fees, Botany (Osterhout), | 9.53 |
| 15.00 | “ “ “ (Jeffrey), . . . . . | ..... |
| 1,242.52 | “ “ Chemistry, | 1,073.64 |
| 160.46 | “ “ Geology, . . . . . | ..... |
| 5.23 | “ “ Zoölogy, . . . . . | ..... |
| Library Funds: | | |
| 60.08 | Book Fund of the Class of 1881, . . . . . | ..... |
| 120.60 | Francis James Child Memorial Fund, . . . . . | ..... |
| ..... | Horace Davis Bequest, | 451.25 |
| 273.86 | Charles Elliott Perkins Memorial, . . . . . | ..... |
| ..... | Sales, | 4.82 |
| \$566,353.93 | | \$591,107.53 |
| Debit balances, \$591,107.53 | | |
| Credit balances, 161,012.04 | | |
| Net debit balance to Exhibit A, page 6 . \$430,095.49 | | |

UNIVERSITY
INCOME AND EXPENDITURE

For the year ended June 30, 1917

INCOME

Income of the following Funds:

| | |
|---|-----------|
| Charles Allen, | \$154.50 |
| Walter F. Baker, | 97.08 |
| William H. Baldwin, Jr., | 108.00 |
| Band Music, | 58.86 |
| Caroline M. Barnard Bequest, | 2,418.67 |
| John Barnard, | 84.85 |
| J. Arthur Beebe Bequest, | 18,829.17 |
| Andrew Bigelow, | 254.98 |
| Stanton Blake, | 257.50 |
| Charlotte F. Blanchard, | 245.70 |
| Samuel D. Bradford, | 270.38 |
| Martin Brimmer, | 2,575.00 |
| James C. Carter, | 5,150.00 |
| John W. Carter, | 207.50 |
| John Cogan, | 77.25 |
| Edwin Conant, | 54.69 |
| Edward Erwin Coolidge (part), | 764.12 |
| Thomas Cotton, | 7.98 |
| John Cowdin, | 1,742.50 |
| George B. Dorr, | 1,923.73 |
| George Draper, | 803.43 |
| R. H. Eddy, | 941.58 |
| Harvard Ellis, | 5,213.09 |
| Richard W. Foster, | 1,077.33 |
| John Davis Williams French, | 88.24 |
| Gore, | 1,059.41 |
| John C. Gray, | 414.75 |
| Henry Harris ($\frac{1}{2}$ income), | 770.93 |
| Harvard Foundation for Exchanges with French Universities, | 1,669.37 |
| Walter Hastings, | 907.73 |
| Henry L. Higginson, | 8,839.80 |
| Thomas Hollis, | 26.78 |
| Thomas Hubbard, | 51.50 |
| Nathaniel Hulton, | 22.87 |
| Thomas Hutchinson, | 12.00 |
| George Baxter Hyde, | 257.50 |
| Leonard Jarvis, | 868.91 |
| Henry P. Kidder, | 515.00 |

Amount carried forward, \$48,757.13

UNIVERSITY (CONTINUED)

INCOME

Amount brought forward, \$48,757.13

Income of the following Funds (*continued*).

| | | |
|---------------------------------------|----------|-------------|
| Joseph Lee, | 165.80 | |
| Morris Longstreth Bequest, | 525.50 | |
| Theodore Lyman, | 515.00 | |
| Robert C. Mollwain Bequest, | 49.59 | |
| Israel Munson, | 811.13 | |
| Henry S. Nourse (part), | 1,679.02 | |
| Francis E. Parker, | 1,888.08 | |
| George F. Parkman, | 206.31 | |
| William Perkins, | 1,545.00 | |
| President's, | 3,320.00 | |
| Ezekiel Rogers, | 182.05 | |
| Daniel Russell, | 77.97 | |
| John L. Russell, | 1,203.55 | |
| Isaac Sweetser, | 2,416.02 | |
| Seth Turner, | 257.50 | |
| William F. Weld, | 1,658.00 | \$65,257.65 |

Income of Graduate Schools of Applied Science balance, 269.10

Gifts for Trees:

| | | |
|---------------------------------------|----------|------------|
| Anonymous, | \$320.97 | |
| E. B. Adams, | 250.00 | |
| Arthur H. Lea, | 1,475.91 | |
| Robert L. McCook, interest, | 26.72 | \$3,073.60 |

Gifts for general purposes, 100.00 2,173.60

| | | |
|---|-------------|------------------|
| Care of the Sarah Winslow Fund, | \$6.18 | |
| Use of houses by College officers, | 1,050.00 | |
| Use of land by Harvard Union and Varsity Club, | 9,356.89 | |
| Sale of University Directory, | 90.34 | |
| Sale of Annual Catalogue, | 377.76 | |
| Sale of Quinquennial Catalogue, | 75.68 | |
| Sale of Guide Book, | 18.50 | |
| Sale of waste paper, wood, junk, etc. | 797.25 | |
| Rent of 38 Quincy St., | 900.00 | |
| Rent of 16 Church St., | 215.00 | |
| Rent of 22 Church St., | 108.50 | |
| Use of rooms in Dane Hall by Charles River Trust Co., | 1,500.00 | |
| Board and lodgings at Freshman Halls, Amer. Mathematical Association, | 807.00 | |
| Receipts dinner Conference Mass. School Administrators, | 48.25 | |
| Receipts of University Printing Office, | \$96,590.41 | |
| Less expenses contra, | 96,317.06 | 273.35 15,624.70 |
| Amount carried forward, | | \$83,325.05 |

UNIVERSITY (CONTINUED)

INCOME

| | | | |
|---|-------------|----------|---------------------|
| Amount brought forward, | \$83,325.05 | | |
| Balance constituted as follows: | | | |
| Deficiency in restricted income met by | | | |
| Charges against Funds and Gifts, | \$399.39 | | |
| Carried to General Suspense, | 22,420.02 | | |
| Deficit in General Income carried to Schedule 10, | 55,411.73 | | |
| Less, | \$78,231.14 | | |
| Balance of restricted income carried to | | | |
| Funds and Gifts, | \$2,678.77 | | |
| General Suspense, | 269.10 | 2,947.87 | 75,283.27 |
| | | | <u>\$158,608.32</u> |

EXPENDITURE

| | | | |
|---|-------------|------------|------------|
| Board of Overseers: | | | |
| Salaries, | \$500.00 | | |
| Reports of President and Treasurer, | 2,571.27 | | |
| General Printing, | 291.88 | | |
| Stationery, postage, telephone and telegraph, | 141.40 | | |
| Auditing Treasurer's accounts, | 300.00 | | |
| Advertising, | 69.50 | | |
| Sundries, | 23.64 | | \$3,897.69 |
| Corporation Office: | | | |
| Fuel, rent, etc., | \$2,637.84 | | |
| Less 80 % transferred to the Treasurer's Office, | 2,110.27 | | 527.57 |
| President's Office: | | | |
| Salaries: | | | |
| President, | \$6,000.00 | | |
| Comptroller, | 2,500.00 | | |
| Services and wages, | 2,468.53 | | |
| Equipment and supplies, | 152.11 | | |
| Stationery, postage, telephone and telegraph, | 918.18 | | |
| Printing, | 299.11 | | |
| Sundries, | 17.13 | | |
| | \$12,355.06 | | |
| Less 90 % transferred to departments in proportion to the number of students, | 11,119.56 | | |
| | \$1,235.50 | | |
| Additional salary of President: | | | |
| From President's Fund, | 3,224.95 | | |
| From Thomas Cotton Fund, | 7.75 | | 4,468.20 |
| Treasurer's Office: | | | |
| Salaries: | | | |
| Treasurer, | \$6,000.00 | | |
| Other salaries, | 4,000.00 | | |
| Amounts carried forward, | \$10,000.00 | \$8,893.46 | |

UNIVERSITY (CONTINUED)

EXPENDITURE

| | | |
|--|--------------------|-------------|
| Amounts brought forward, | \$10,000.00 | \$8,898.46 |
| Treasurer's Office (<i>continued</i>). | | |
| Services and wages, | 1,688.70 | |
| Office supplies and expenses, | 744.59 | |
| Rent of safes, | 790.00 | |
| Subscription, City of Boston, toward cost machine gun, | 100.00 | |
| University charge : | | |
| Corporation Office, | 2,110.27 | |
| | <u>\$15,433.56</u> | |
| Less transferred : | | |
| To Departments in proportion to the income of their Funds, | 18,336.50 | |
| The balance represents proportion on income of University Funds, | | 2,097.06 |
| Bursar's Office : | | |
| Salaries : | | |
| Bursar, | \$4,500.00 | |
| Assistant Comptroller, | 2,750.00 | |
| Services and wages, | 14,516.29 | |
| Mercantile Agency, | 1,265.00 | |
| Auditing accounts, | 1,170.00 | |
| Equipment and supplies, | 516.90 | |
| Stationery, postage and telephone, | 2,028.94 | |
| Printing, | 1,214.45 | |
| Miscellaneous, | 504.29 | |
| | <u>\$28,465.87</u> | |
| Less transferred : | | |
| To the College for letting College rooms, | \$800.00 | |
| To Departments in proportion to the Bursar's collections and payments, | 25,915.82 | 26,715.82 |
| The balance represents proportion applicable to University collections and payments, | | 1,750.05 |
| Publication Office : | | |
| Salary : | | |
| Publication Agent, | \$3,500.00 | |
| Services and wages, | 797.49 | |
| Office supplies and expenses, | 7,335.29 | |
| | <u>\$11,632.78</u> | |
| Less charged directly to Departments, | 8,943.49 | |
| Balance transferred to Departments in proportion to the free distribution of their publications, | \$2,689.29 | |
| Amount carried forward, | | \$12,740.57 |

UNIVERSITY (CONTINUED)

EXPENDITURE

| | | | |
|--|--------------------|-------------|--|
| Amount brought forward, | | \$12,740.57 | |
| Inspector of Grounds and Buildings : | | | |
| Salary : | | | |
| Inspector of Grounds and Buildings, | \$6,000.00 | | |
| Services and wages, office, | 4,660.47 | | |
| Services and wages, head carpenter, | 1,562.00 | | |
| Office supplies and expenses, | 977.54 | | |
| Repairs and improvements, | 86.13 | | |
| | <u>\$13,286.14</u> | | |
| Less transferred to Departments in proportion to work done, | 11,806.80 | 1,479.34 | |
| Janitor's Office : | | | |
| Janitor, | \$1,949.96 | | |
| Assistant Janitor, | 1,289.27 | | |
| Office supplies and expenses, | 104.98 | | |
| | <u>\$3,294.21</u> | | |
| Less transferred to Departments in proportion to the floor area of buildings under Janitor's supervision, | 3,294.21 | | |
| Quinquennial Catalogue : | | | |
| Salary editor, | \$100.00 | | |
| Services and wages, | 2,321.08 | | |
| Office expenses, | 190.00 | | |
| | <u>\$2,611.08</u> | | |
| Less sales, | 75.68 | | |
| Amount to be apportioned to departments, | \$2,535.40 | | |
| Less transferred to departments in proportion to space occupied, | 1,633.31 | | |
| Amount paid by University : | | | |
| General Funds, | \$902.09 | | |
| Amount paid by proceeds from sales, | 75.68 | 977.77 | |
| Annual Catalogue : | | | |
| Printing and supplies, | \$5,795.98 | | |
| Less sales, | 877.76 | | |
| Amount to be apportioned to departments, | \$5,418.22 | | |
| Less transferred to departments in proportion to space occupied, | 4,436.85 | | |
| Amount paid by University : | | | |
| General Funds, | \$981.37 | | |
| Amount paid by proceeds from sales, | 377.76 | 1,359.13 | |
| General Expenses : | | | |
| Salary Secretary, | \$3,500.00 | | |
| Salary Dean of University Extension, | 400.00 | | |
| Salary Sanitary Inspector, | 500.00 | | |
| Amounts carried forward, | \$4,400.00 | \$16,556.81 | |

UNIVERSITY (CONTINUED)

EXPENDITURE

| | | |
|--|-------------------|--------------|
| Amounts brought forward, | \$4,400.00 | \$16,556.81 |
| General Expenses (continued). | | |
| Expenses Real Estate in Lucas St., Boston, | 110.86 | |
| University Gazette, | \$1,588.87 | |
| Less sales, | 296.90 | 1,241.97 |
| Maintenance of grounds, | | 11,448.48 |
| Trees and shrubs: | | |
| From General Funds, | \$7,687.98 | |
| “ Gifts, | 2,199.99 | 9,887.92 |
| Resurfacing drives around Widener Library, . . . | 685.25 | |
| Street watering, | 600.64 | |
| Diplomas, | 11.00 | |
| Commencement Day, | 2,849.10 | |
| Work on pictures, | 46.84 | |
| Dues to American Association of Universities, . . | 40.00 | |
| Dues to National University Extension Association, | 25.00 | |
| Expenses American Mathematical Society Conference, | 674.60 | |
| Yard fences, | 179.71 | |
| Rent and water tax, land and buildings on Church St., | 1,019.65 | |
| Printing Guide book, | 200.00 | |
| Honorarium to lecturer, | 200.00 | |
| Amount paid to Museum of Comparative Zoölogy as | | |
| income on the Agassiz Estate, Quincy St., . . | 2,208.73 | |
| Services head guide, | 187.50 | |
| Delivery service, | 225.00 | |
| Linen for Freshman Halls, | 1,587.51 | |
| Interest on advances — Yard heat tunnel, | 9,394.20 | |
| Expenses of motor trucks, | 652.44 | |
| Equipment and Supplies, | 138.85 | |
| Expenses reception to Marshall Joffre, | 585.65 | |
| Deficit 1916-17, Harvard Dining Association, . . . | 14,964.42 | |
| Deficit 1916-17, Foxcroft Dining Hall, | 5,923.15 | |
| Deficits 1914-16, Foxcroft Dining Hall, | 5,380.20 | |
| Repayment in part of advance from Henry T. | | |
| Morgan Fund, 1909-10, | 24,585.16 | |
| Sundries, | 106.66 | 98,908.44 |
| From Gifts: | | |
| Gift for expenses of development plan of University, | | 123.00 |
| University Directory: | | |
| Services and wages, | \$543.12 | |
| Office supplies and expenses, | 9.88 | 553.00 |
| Chief Engineer: | | |
| Services and Wages, | \$1,855.37 | |
| Miscellaneous, | 192.14 | |
| | <u>\$2,047.51</u> | |
| Amounts carried forward, | \$2,047.51 | \$116,186.25 |

UNIVERSITY (CONTINUED)

EXPENDITURE

| | | |
|---|--------------------|---------------------|
| Amounts brought forward, | \$2,047.51 | \$116,136.25 |
| Chief Engineer (<i>continued</i>). | | |
| Less transferred to Departments in proportion to the floor area of buildings under Engineer's super- vision, | 2,047.51 | |
| Watchmen, | \$7,146.07 | |
| Transferred to Departments in proportion to floor area of buildings, | 7,146.07 | |
| Medical Adviser's Office: | | |
| Salary Medical Adviser, | \$4,000.00 | |
| Services and wages, | 471.54 | |
| Office supplies and expenses, | 199.22 | |
| Sundries, | 845.00 | |
| | <u>\$5,015.76</u> | |
| Less amount transferred: \$750 to the Stillman Infirmary and the remainder to Cambridge Departments in proportion to the number of students, | 5,015.76 | |
| Regent's Office: | | |
| Salary, | \$100.00 | |
| Office expenses, | 46.34 | |
| | <u>\$146.34</u> | |
| Less transferred to Cambridge Departments in proportion to the number of students, | 146.34 | |
| Purchasing Agent: | | |
| Salary and expenses, | \$2,353.44 | |
| Transferred to Departments, | 2,353.44 | |
| University Printing Office: | | |
| Salaries, | \$2,500.00 | |
| Services and wages, | 36,394.18 | |
| Supplies and equipment, | 84,951.87 | |
| Printing done in commercial plants, | 5,945.08 | |
| Binding done in commercial plants, | 7,912.50 | |
| Changes in Randall Hall, | 5,045.90 | |
| Water, heat, light, | 2,361.70 | |
| Express and teaming, including moving expenses from University Hall to Randall Hall, | 969.43 | |
| Repairs, | 150.38 | |
| Miscellaneous, | 86.02 | |
| | <u>\$96,817.06</u> | |
| Expenses carried contra and deducted from sales to Departments, | 96,817.06 | |
| Amount carried forward, | | <u>\$116,136.25</u> |

UNIVERSITY (CONTINUED)
EXPENDITURE

| | | | | |
|--|--------------------|---------------------|-----------|--|
| Amount brought forward, | | \$116,136.25 | | |
| Harvard University Press : | | | | |
| Salary of Director, | | \$1,000.00 | | |
| Services and wages, | | 4,802.49 | | |
| Equipment and supplies, | | 1,428.01 | | |
| Stationery, postage, telephone and telegraph, . . . | | 3,501.61 | | |
| Printing, | | 64,885.14 | | |
| Payments to authors on account of sales, | | 18,556.38 | | |
| Honoraria paid authors, | | 1,062.86 | | |
| Advertising, | | 2,344.73 | | |
| Freight and express, | | 1,129.94 | | |
| Binding, | | 3,791.49 | | |
| Interest on advances, | | 1,081.58 | | |
| Expenses of New York Office, | | 1,587.80 | | |
| Miscellaneous, | | 424.49 | | |
| | | <u>\$100,596.02</u> | | |
| Less receipts : | | | | |
| Sales of publications, | \$67,441.01 | | | |
| Deduct sales of publications credited to other Departments, | 9,699.72 | | | |
| | <u>\$57,741.29</u> | | | |
| Expense of publications paid by other Departments, | 20,434.71 | 78,176.00 | 22,420.02 | |
| Memorial Hall and Sanders Theatre : | | | | |
| Repairs and equipment, | | \$786.30 | | |
| Caretaking, | | 970.04 | | |
| | | <u>\$1,756.34</u> | | |
| Less 90 % transferred to College, | | 1,580.71 | 175.63 | |
| Repairs and caretaking, general, | | | 2,538.20 | |
| Taxes, Harvard Union and Varsity Club, | | | 7,322.60 | |
| Payments made from University income for the following accounts : | | | | |
| Museum of Comparative Zoölogy, Sch. 27 | | \$686.18 | | |
| Peabody Museum of American Archae- ology and Ethnology, Sch. 28 | | 3,628.30 | | |
| Semitic Museum, Sch. 29 | | 1,089.33 | | |
| Germanic Museum, Sch. 30 | | 231.45 | | |
| William Hayes Fogg Art Museum, . . Sch. 31 | | 458.08 | | |
| Phillips Brooks House, Sch. 33 | | 223.78 | | |
| Stillman Infirmary, Sch. 35 | | 3,708.55 | 10,020.62 | |
| | | <u>\$158,608.32</u> | | |

COLLEGE

(Including the Graduate School of Arts and Sciences)

INCOME AND EXPENDITURE

For the year ended June 30, 1917

INCOME

Income of Funds for Instruction and Gifts for Salaries.

| | |
|--|---------------------|
| Alford Professorship, | \$1,429.07 |
| Edward Austin (part), | \$2,928.78 |
| Austin Teaching Fellowships, | 12,500.00 |
| John B. Barringer, | 1,580.88 |
| Boylston Professorship, | 1,469.85 |
| Class of 1880, | 5,838.95 |
| Class of 1882, | 5,003.02 |
| Class Subscription, | 7,757.86 |
| Eaton Professorship, | 5,901.85 |
| Eliot Professorship, | 1,118.43 |
| Eliot " (Jon. Phillips' Gift), | 350.00 |
| Calvin and Lucy Ellis Aid (part), | 7,060.98 |
| Erving Professorship, | 180.25 |
| Fisher " | 2,147.76 |
| Henry Flynt, | 22.45 |
| Fund for Permanent Tutors, | 836.86 |
| Gospel Church ($\frac{1}{2}$ income used), | 455.86 |
| Gurney (part), | 9,805.00 |
| Hersey Professorship ($\frac{1}{2}$ income), | 624.71 |
| Hersey Professorship (Thomas Lee's gift), | 1,119.82 |
| Hollis " (Mathematics), | 192.97 |
| John E. Hudson Professorship, | 3,351.67 |
| Abbott Lawrence (part), | 1,584.55 |
| James Lawrence (part), | 1,297.16 |
| Henry Lee Professorship, | 5,676.79 |
| Thomas Lee, for Reading, | 818.55 |
| Arthur T. Lyman, | 3,090.00 |
| Charles Nicholas McCall, | 1,917.40 |
| Gordon McKay Endowment (part), | 23,582.13 |
| McLean Professorship, | 2,217.74 |
| Francis Greenwood Peabody (part), | 2,750.00 |
| Daniel H. Peirce, | 774.97 |
| Perkins Professorship, | 1,186.66 |
| Pope Professorship, | 2,703.75 |
| Professorship of Latin-American History and Economics (part), | 2,000.00 |
| Professorship of Hygiene (1899), (part), | 6,066.45 |
| Nelson Robinson, Jr. Additional, | 586.17 |
| Eliza O. and Mary P. Ropes (part), | 5,000.00 |
| Amount carried forward, | \$182,292.34 |

COLLEGE (CONTINUED)

INCOME

Amount brought forward, \$132,292.34

Income of Funds for Instruction and Gifts for Salaries

(continued).

| | | |
|---|-----------------|--------------|
| Rumford Professorship, | 3,222.15 | |
| Smith Professorship, | 1,191.71 | |
| Teachers' Endowment: | | |
| Interest (part), | \$102,160.07 | |
| Gift, | 400.00 | 102,560.07 |
| Twenty-fifth Anniversary Fund of the | | |
| Class of 1881, | 5,917.30 | |
| Unknown Memorial (part), | 3,350.00 | |
| Henry Villard, | 829.00 | |
| Henry W. Wales: | | |
| Wales Professorship (part), | 1,786.31 | |
| Henry C. Warren (part), | 3,763.69 | |
| Sylvester Waterhouse, | 533.69 | |
| David A. Wells (part), | 5,069.48 | |
| Jerome Wheelock, | 9.63 | |
| Gifts for salaries, | 17,207.55 | \$277,682.92 |

Income of Funds for General Purposes.

| | | |
|---|------------------|--|
| John W. P. Abbot (accumulating), | \$893.27 | |
| Thomas J. Allen, | 1,550.41 | |
| Anonymous — balance of a special class fund, . | .72 | |
| John A. Blanchard, | 54.07 | |
| Class of 1883, | 4,958.11 | |
| “ 1884, | 5,155.15 | |
| “ 1885, | 5,759.76 | |
| “ 1886, | 5,150.00 | |
| “ 1887, | 5,150.00 | |
| “ 1888, | 4,761.50 | |
| “ 1889, | 5,095.00 | |
| “ 1890, | 4,359.89 | |
| “ 1891, | 5,150.00 | |
| “ 1894, | 408.96 | |
| “ 1896, | 65.61 | |
| “ 1899, | 1,065.84 | |
| Edward W. Codman, | 16,748.06 | |
| George G. Crocker, | 257.50 | |
| Charles L. Hancock (part), | 3,264.04 | |
| Harvard Endowment, | 1,453.28 | |
| Matchett, | 15,813.33 | |
| Emily H. Moir Bequest, | 2,338.10 | |
| Trenor L. Park, | 1,128.62 | |
| Jonathan Phillips, | 1,622.25 | |

Amounts carried forward, \$94,203.47 \$277,682.92

COLLEGE (CONTINUED)

INCOME

| | | |
|---|-------------|--------------|
| Amounts brought forward, | \$94,208.47 | \$277,682.92 |
| Income of Funds for General Purposes (<i>continued</i>). | | |
| William M. Spackman, | 128.75 | |
| Henry Baldwin Stone Memorial, | 8,800.00 | |
| Edward Wheelwright Bequest, | 8,087.11 | |
| Davies Wilson, | 280.06 | |
| Gifts for General Purposes, | 50.00 | 100,999.39 |
| Income of Fellowship Funds, and Gifts for Fellowships, | | 47,042.45 |
| Income of Scholarship Funds, and Gifts for Scholarships, | | 88,315.85 |
| Income of Beneficiary and Loan Funds, and Repayments, | | 64,830.64 |
| Income of Prize Funds, and Gifts for Prizes, | | 5,600.96 |
| Income of Sundry Funds for Special Purposes: | | |
| Percy Lee Atherton Gift, | \$528.49 | |
| Botanic Department (part): | | |
| $\frac{1}{2}$ for Cryptogamic Herbarium, | \$512.17 | |
| $\frac{1}{2}$ for Laboratories of Botany, | 256.08 | 768.25 |
| William H. Baldwin, Jr., 1885, | | 287.83 |
| Louise E. Bettens: | | |
| Interest, | \$874.68 | |
| Gift for income, | 1,200.00 | 2,074.68 |
| Charles Osmyn Brewster, | | 526.33 |
| Classical Publication Fund of the Class of 1856: | | |
| Interest, | | 869.72 |
| Class of 1883 Special, | | 20.45 |
| T. Jefferson Coolidge, for Research in Physics: | | |
| Interest, | \$8.60 | |
| Gift for income, | 5,500.00 | 5,508.60 |
| Cryptogamic Herbarium, | | 165.53 |
| Ernest B. Dane Fund in Physics, | | 2,132.33 |
| Economics 2 Book Fund, sales publication, | | 57.55 |
| English A Fund: | | |
| Sales of publication, | \$589.12 | |
| Gift, | 35.00 | 624.12 |
| George A. Gardner, | | 283.45 |
| Wolcott Gibbs Memorial: | | |
| Interest, | \$1,271.17 | |
| Other receipts, | 632.64 | 1,903.81 |
| Harvard Economic Studies: | | |
| Gift, | \$800.00 | |
| Sales of publications, | 1,772.04 | 2,572.04 |
| Harvard Oriental Series: | | |
| Interest, | \$772.50 | |
| Sale of paper, | 14.52 | 787.02 |
| Amounts carried forward, | \$18,610.20 | \$579,472.21 |

COLLEGE (CONTINUED)

INCOME

Amounts brought forward, \$18,610.20 \$579,472.21

Income of Sundry Funds for Special Purposes

(continued).

History Book Fund (History 1):

| | | |
|------------------------------------|--------|--------|
| Interest, | \$8.57 | |
| Sales of publications, | 299.92 | |
| Sale of duplicate books, | 169.06 | 477.55 |

| | |
|-------------------------------------|--------|
| Richard Hodgson Memorial, | 696.59 |
|-------------------------------------|--------|

| | |
|--|------|
| Albert Fairchild Holden Bequest, | 2.52 |
|--|------|

| | |
|-------------------------------------|-------|
| Gardiner M. Lane Bequest, | 73.75 |
|-------------------------------------|-------|

| | |
|--|----------|
| George H. Leatherbee Lecture Fund, | 2,866.00 |
|--|----------|

| | |
|--|-------|
| Calvin Stoughton Locke Fund, | 51.50 |
|--|-------|

Solomon Lincoln Bequest:

| | | |
|---------------------------------|----------|--------|
| Interest, | \$598.23 | |
| Gift for income, | 25.00 | |
| Sale of publications, | 76.21 | 694.44 |

| | |
|--|--------|
| Joseph Lovering for Physical Research, | 428.58 |
|--|--------|

| | |
|---|--------|
| Mathematics Book Fund, sales of publications, | 114.82 |
|---|--------|

| | |
|--|----------|
| Music Building Maintenance Fund, | 2,734.80 |
|--|----------|

| | |
|---|----------|
| Francis Greenwood Peabody (part), | 2,908.61 |
|---|----------|

| | |
|--|----------|
| Physical Laboratory Endowment, | 3,877.43 |
|--|----------|

| | |
|---|--------|
| Professorship of Latin-American History and Economics (part), | 509.44 |
|---|--------|

General Publication Fund:

| | | |
|----------------------------------|------------|----------|
| Sales of publications, | \$2,122.04 | |
| Interest, | 307.87 | 2,429.91 |

| | |
|-----------------------------|--------|
| Robert W. Sayles, | 261.31 |
|-----------------------------|--------|

| | |
|---------------------------------|--------|
| George William Sawin, | 380.07 |
|---------------------------------|--------|

| | |
|---------------------------------|----------|
| Shaler Memorial Fund, | 1,843.65 |
|---------------------------------|----------|

Henry Warren Torrey:

| | | |
|---------------------|----------|----------|
| Interest, | \$515.00 | |
| Sales, | 588.87 | 1,098.87 |

| | |
|------------------------------------|----------|
| Unknown Memorial (part), | 1,800.00 |
|------------------------------------|----------|

| | |
|----------------------------|--------|
| Cyrus M. Warren, | 854.68 |
|----------------------------|--------|

| | |
|----------------------------------|----------|
| David A. Wells (part), | \$296.47 |
|----------------------------------|----------|

Amount received from Harvard

| | | |
|--|----------|----------|
| Economic Studies to reimburse publishing costs of 1915-16, | 1,270.30 | 1,566.77 |
|--|----------|----------|

| | |
|-----------------------------------|----------|
| Henry C. Warren (part), | 2,458.18 |
|-----------------------------------|----------|

| | | |
|--------------------------|----------|-----------|
| Morrill Wyman, | 2,771.52 | 49,011.19 |
|--------------------------|----------|-----------|

Sundry Gifts for Special Purposes:

| | | |
|------------------|-------------|--|
| Gifts, | \$26,695.03 | |
|------------------|-------------|--|

| | | |
|--|----------|-----------|
| Interest and other receipts, | 2,484.04 | 29,179.07 |
|--|----------|-----------|

| | |
|-----------------------------------|--------------|
| Amount carried forward, | \$657,662.47 |
|-----------------------------------|--------------|

COLLEGE (CONTINUED)

INCOME

| | | |
|---|--------------|----------------|
| Amount brought forward, | | \$657,662.47 |
| Receipts from students. | | |
| Tuition Fees — Regular Programme : | | |
| College Regular, | \$382,360.00 | |
| " Special, | 7,107.50 | |
| Unclassified, | 23,080.00 | |
| Out of Course, | 6,895.00 | \$419,442.50 |
| Graduate School of Arts and Sciences, . . | | 71,833.50 |
| Radcliffe students in College courses, . . . | | 3,290.00 |
| Tuition Fees — Additional Courses : | | |
| College Regular, | \$25,430.21 | |
| " Special, | 425.34 | |
| Unclassified, | 1,946.00 | |
| Out of Course, | 556.67 | 28,358.22 |
| Auditors Fees, | | 100.00 |
| Examination Fees : | | |
| Admission, | \$2,272.00 | |
| Condition, make-up and advanced standing, | 1,491.00 | |
| Doctor of Philosophy, | 90.00 | 3,853.00 |
| Graduation Fees, | | 7,420.00 |
| Laboratory Fees : | | |
| Anthropology, | \$60.00 | |
| Astronomy, | 755.00 | |
| Botany, | 550.00 | |
| Chemistry, Boylston Hall, . . . | 22,222.93 | |
| Chemistry, Gibbs Laboratory, . . | 381.19 | |
| Education, | 5.00 | |
| Engineering Sciences, | 372.00 | |
| Geology, | 1,920.00 | |
| Hygiene and Sanitation, | 50.00 | |
| Mineralogy, | 215.00 | |
| Music, | 496.25 | |
| Physics, | 2,165.50 | |
| Psychology, | 117.50 | |
| Zoölogy, | 1,116.46 | 30,426.83 |
| College Dormitories: Hollis, Stoughton, Holworthy, Thayer, Weld, Wadsworth House, Walter Hastings, Perkins, and Conant, | \$72,556.50 | |
| Matthews Hall, | 12,467.50 | |
| | \$85,024.00 | |
| Less $\frac{1}{4}$ net income from Matthews Hall, credited under income of Matthews Scholarship, . . . | 3,146.38 | 81,877.62 |
| College Dormitories: Freshman Halls, | 78,283.22 | 724,884.89 |
| Amount carried forward, | | \$1,882,547.36 |

COLLEGE (CONTINUED)

INCOME

Amount brought forward, \$1,382,547.36

Sundries :

| | | |
|--|----------|-----------------------|
| Sale of old examination papers, | \$78.81 | |
| “ Harvard Bulletins on Education, | 515.24 | |
| “ Other Publications. | 54.57 | |
| College Entrance Examination Board, reading examination books, | 805.00 | |
| Receipts, Squam Lake Engineering Camp, . . . | 8,141.80 | |
| Royalty on sales Agamemnon of Aeschylus, . . | 9.12 | |
| Contributions for salary, | 1,250.00 | |
| Duplicate diplomas, | 15.00 | |
| Amount collected on term-bills charged off in pre- vious years, | 20.00 | |
| Sale of chairs from Freshman Halls, | 80.00 | 10,914.54 |
| | | <u>\$1,393,461.90</u> |

EXPENDITURE

| | | |
|---|-------------|--------------|
| From Fellowship Funds and Gifts, | \$36,860.40 | |
| From Scholarship Funds and Gifts, | 67,098.80 | |
| From Beneficiary and Loan Funds and Gifts, | 46,778.96 | |
| From Prize Funds and Gifts for Prizes, | 3,447.60 | |
| For Scholarships from General Funds. | | |
| Graduate School of Arts and Sciences: | | |
| University, | | 6,700.00 |
| From Sundry Funds and Balances for Special Purposes. | | |
| Percy Lee Atherton Gift, | \$361.65 | |
| Louise E. Bettens Fund, | 2,502.00 | |
| Charles O. Brewster Fund, Department of Music, | 500.00 | |
| Classical Publication Fund of the Class of 1856: | | |
| Harvard Studies in Classical Philology, . . | 828.37 | |
| T. Jefferson Coolidge for Research in Physics, . . | 4,860.96 | |
| Cryptogamic Herbarium Fund, | 669.21 | |
| Ernest B. Dane Fund in Physics, | 2,939.77 | |
| Economics 2 Book Fund, | 5.65 | |
| English A Fund, | 660.20 | |
| George A. Gardner, for photographs, etc., for the Department of Geology, | 316.34 | |
| Wolcott Gibbs Memorial Endowment, . . . | 1,577.83 | |
| Harvard Oriental Series, publications, | 772.50 | |
| Harvard Economic Studies, | 6,011.11 | |
| History Book Fund (History 1), | 455.83 | |
| Richard Hodgson Memorial, | 728.40 | |
| Albert F. Holden Bequest, | 6,100.00 | |
| Amounts carried forward, | \$29,289.82 | \$160,880.76 |

COLLEGE (CONTINUED)

EXPENDITURE

| | | |
|--|-------------------|--------------|
| Amounts brought forward, | \$29,289.82 | \$160,880.76 |
| From Sundry Funds and Balances for Special Purposes (<i>continued</i>). | | |
| Solomon Lincoln Bequest, | 248.54 | |
| Joseph Lovering for Physical Research, . . | 997.26 | |
| Mathematics Book Fund, | 68.52 | |
| Music Building Maintenance Fund, | 1,877.20 | |
| Francis G. Peabody (part), | 1,467.87 | |
| Professorship of Latin-American History and Economics Fund (part), | 509.44 | |
| General Publication Fund, | 1,571.41 | |
| Nelson Robinson, Jr. Additional (part). | | |
| Psychological Laboratory, . . . \$1,118.75 | | |
| Books, | 219.79 | |
| Expenses, | 96.77 | |
| Librarian Department Philosophy, | 1,000.00 | |
| | <u>\$2,485.81</u> | |
| Less amount paid for salaries, | 1,000.00 | 1,485.81 |
| Robert W. Sayles for Department of Geology, | 65.87 | |
| Shaler Memorial, | 1,569.50 | |
| Henry Warren Torrey, publications, | 198.68 | |
| Unknown Memorial (part), services and expenses, | 1,800.00 | |
| Cyrus M. Warren, research in Chemistry, | 49.60 | |
| Henry C. Warren, publications and books, | 1,386.26 | |
| David A. Wells, publishing prize essays, | 296.47 | |
| Jefferson Physical Laboratory Endowment, | 4,167.43 | 46,997.18 |
| From Gifts and Fees, etc., for Special Purposes, | | 17,486.32 |
| Administration Offices. | | |
| Dean of the Faculty of Arts and Sciences : | | |
| Salary, | \$500.00 | |
| Services and wages, | 1,544.25 | |
| Office supplies and expenses, | 189.96 | 2,234.21 |
| Dean of Harvard College : | | |
| Salaries, | \$9,750.00 | |
| Services and wages, | 9,282.57 | |
| Office supplies and expenses, | 3,184.04 | 22,216.61 |
| Dean and Secretary of the Graduate School of Arts and Sciences : | | |
| Salaries, | \$3,500.00 | |
| Services and wages, | 1,468.09 | |
| Office supplies and expenses, | 729.95 | 5,698.04 |
| Secretary Administrative Board for Special Students, Salary, | | 200.00 |
| Amount carried forward, | | \$255,713.12 |

COLLEGE (CONTINUED)

EXPENDITURE

Amount brought forward, \$255,713.12

Administration Offices (*continued*).

Secretary of the Faculty of Arts and Sciences :

| | | |
|---|------------|----------|
| Salaries, | \$3,000.00 | |
| Services and wages, | 1,938.55 | |
| Office supplies and expenses, | 696.09 | 5,634.64 |

Students Employment Office and Appointment Office :

| | | |
|---|------------|----------|
| Salary of Secretary, | \$1,200.00 | |
| Services and wages, | 8,738.83 | |
| Office supplies and expenses, | 1,050.86 | 5,989.69 |

Secretary Committee on Choice of Electives :

| | | |
|---|----------|----------|
| Salary, | \$836.02 | |
| Services and wages, | 977.40 | |
| Office supplies and expenses, | 347.51 | 2,160.93 |

Professor of Hygiene :

| | | |
|----------------------------|--|--------|
| Office expenses, | | 357.59 |
|----------------------------|--|--------|

Dean of the Graduate School of Business Administration :

| | | |
|-------------------|--|----------|
| Salary, | | 1,000.00 |
|-------------------|--|----------|

From Appropriations.

| | | |
|---|----------|-----------|
| Anthropology, | \$80.68 | |
| Astronomy, | 60.00 | |
| Botany, | 3,291.68 | |
| Classics, | 200.00 | |
| Chemistry, | 4,007.50 | |
| Economics, | \$644.08 | |
| Office expenses, | 918.96 | 1,563.04 |
| Education, | 385.48 | |
| English, | 309.25 | |
| Engineering Sciences, | 2,339.98 | |
| Fine Arts, | 1,018.62 | |
| French and other Romance Languages, | 1,590.00 | |
| Geology, | 1,085.00 | |
| German, | 705.00 | |
| Government, | 129.71 | |
| History, | 497.00 | |
| Hygiene and Sanitation, | 479.02 | |
| Mathematics, | 536.93 | |
| Mineralogy and Petrography, | 304.76 | |
| Music, | 330.00 | |
| Physics, | 3,635.73 | |
| Psychology, | 210.00 | |
| Zoölogy, | 863.32 | 23,472.70 |

Amount carried forward, \$294,328.67

COLLEGE (CONTINUED)

EXPENDITURE

| | | |
|---|--------------|--------------|
| Amount brought forward, | | \$294,328.67 |
| From Laboratory Fees. | | |
| Anthropology, | \$60.00 | |
| Astronomy, | 668.03 | |
| Botany, | 320.86 | |
| Chemistry, Boylston Hall, | 22,054.05 | |
| Chemistry, Gibbs Laboratory, | 381.19 | |
| Education, | 5.00 | |
| Engineering Sciences, | 372.00 | |
| Geology, | 1,322.34 | |
| Hygiene and Sanitation, | 71.00 | |
| Mineralogy, | 215.00 | |
| Music, | 496.25 | |
| Physics, | 2,165.50 | |
| Psychology, | 117.50 | |
| Zoology, | 1,111.23 | 29,359.45 |
| For College Public Buildings, which are not valued in the Treasurer's books. | | |
| Repairs and Equipment, | \$5,591.05 | |
| Caretaking and Operating Expenses, | 35,883.11 | |
| Sever Hall sprinkler system, | 1,165.75 | |
| University Hall changes, | 6,906.29 | |
| Massachusetts Hall changes, | 581.28 | |
| Lawrence Hall changes, | 2,117.46 | |
| Pierce Hall changes, | 6,328.23 | 58,573.17 |
| For College Dormitories which are not valued in the Treasurer's books. | | |
| Hollis, Stoughton, Holworthy, Thayer, Weld, Wadsworth House, Walter Hastings, Perkins, and Conant; and for Matthews Hall: | | |
| Repairs and Equipment, | \$9,243.21 | |
| Caretaking and Operating Expenses, | 37,351.82 | |
| Wadsworth House Changes, | 1,342.65 | |
| Freshman Halls: | | |
| Maintenance and depreciation, | 20,000.00 | |
| Caretaking and Operating Expenses, | 42,275.11 | 110,212.79 |
| General. | | |
| Salaries for Instruction: | | |
| Edward Austin (part): | | |
| Austin Teaching Fellowships, \$12,500.00 | | |
| From Sundry Funds and Gifts, . 261,239.80 | | |
| From General Income, 320,948.24 | \$594,688.04 | |
| Amounts carried forward, | \$594,688.04 | \$492,474.08 |

COLLEGE (CONTINUED)

EXPENDITURE

Amounts brought forward, \$594,688.04 \$492,474.08

General (*continued*).

| | | |
|---|-----------|------------|
| Expenses Engineering Camp at Squam Lake, . . | 9,005.76 | |
| Expenses Cruft Memorial Laboratory, | 6,360.20 | |
| Fitting up new laboratories in Pierce Hall for Department of Geology, | 4,088.74 | |
| Expenses Department of Military Science, . . . | 6,362.57 | |
| Tutors in Division History, Government and Economics, | 9,196.52 | |
| Services and wages, | 8,577.88 | |
| Proctors, | 2,808.76 | |
| Equipment and supplies, | 862.02 | |
| Blue-books, | 1,044.14 | |
| Printing, | 10,967.55 | |
| Diplomas, | 508.00 | |
| Stationery, postage, telephone, etc., | 1,107.07 | |
| Monitorships, | 1,452.95 | |
| Subscription to American School of Classical Studies, | 250.00 | |
| Music Class Day, | 125.00 | |
| Refreshments at Faculty Meetings, | 74.61 | |
| Grant to Blue Hill Observatory for expenses, . . | 1,000.00 | |
| Cup for Freshman Halls Singing Clubs, | 252.26 | |
| College Entrance Examination Board, | 120.10 | |
| Graduate School Reception, | 85.00 | |
| Legal expenses, | 48.79 | |
| Furniture, Faculty room, | 126.10 | |
| Travelling expenses, | 35.26 | |
| Insurance on apparatus, | 82.61 | |
| Teaming, | 205.62 | |
| Books, | 90.36 | |
| Miscellaneous, | 64.32 | 659,090.23 |

Admission Examinations.

Cambridge :

| | | |
|-------------------------------|------------|----------|
| Services and wages, | \$1,852.80 | |
| Reading books, | 1,604.63 | |
| Other expenses, | 1,014.01 | 4,471.44 |

Payments made from College Income for the following accounts :

| | |
|--|----------|
| Jefferson Physical Laboratory, Schedule 8, . . . | \$600.00 |
| Museum of Comparative Zoölogy, Schedule 27, . . | 4,324.00 |
| Peabody Museum of American Archaeology and Ethnology, Schedule 28, | 402.59 |

Amounts carried forward, \$5,326.59 \$1,156,035.75

COLLEGE (CONTINUED)

EXPENDITURE

| | | |
|--|---------------------|------------------------------|
| Amounts brought forward, | \$5,826.59 | \$1,156,035.75 |
| General (continued). | | |
| Payments made from College Income for the following accounts (continued). | | |
| William Hayes Fogg Art Museum, | | |
| Schedule 31, | 4,122.25 | |
| Phillips Brooks House, Schedule 33, . | 1,477.12 | |
| Hemenway Gymnasium, Schedule 34, . . | 7,503.71 | |
| Stillman Infirmary, Schedule 35, | 8,944.00 | 22,373.67 |
| University charge. | | |
| President's Office, salaries and expenses, | \$6,888.51 | |
| Treasurer's Office, care of investments, | 5,837.98 | |
| Bursar's Office: | | |
| Collections and payments, | \$16,810.00 | |
| Letting College rooms, | 800.00 | 17,110.00 |
| Medical Adviser, salary and expenses, | 3,104.89 | |
| Regent's Office, salary and expenses, | 106.52 | |
| Inspector of Grounds and Buildings, salary and expenses, | 5,748.41 | |
| Publication Office, salary and expenses, | 1,586.68 | |
| Quinquennial Catalogue, | 1,138.88 | |
| Annual Catalogue, | 2,727.67 | |
| 90 % Memorial Hall and Sanders Theatre, expenses for the building, | 1,580.71 | |
| Watchmen, | 4,108.87 | |
| Engineer, | 1,407.17 | |
| Janitor, | 2,635.04 | |
| Purchasing Agent, | 849.41 | 54,815.64 |
| | | <u>\$1,232,725.06</u> |
| Balance constituted as follows: | | |
| Balances of restricted income | | |
| Added to Funds and Gifts, | \$86,148.16 | |
| Carried to General Suspense, | 1,096.87 | |
| Applied to pay balances previously charged to General Suspense, | 1,180.75 | |
| Surplus of general income carried to Sch. 10, . . | 98,070.85 | |
| | <u>\$186,491.13</u> | |
| Less Deficiency of restricted income met by | | |
| Charges against Funds and Gifts, \$24,119.31 | | |
| Advances charged to General Suspense, | 1,613.98 | |
| Previous balances credited to General Suspense, | 21.00 | 25,754.29 |
| | | <u>160,736.84</u> |
| | | <u><u>\$1,393,461.90</u></u> |

LIBRARY

INCOME AND EXPENDITURE

For the year ended June 30, 1917

INCOME

Income of Book Funds and Gifts and Receipts for the purchase of books.

| | | |
|--|-------------|--------|
| Francis Boott (part), | \$366.20 | |
| Nathaniel I. Bowditch, | 114.85 | |
| Bright Legacy ($\frac{1}{4}$ income), | 1,287.50 | |
| William R. Castle, | 124.15 | |
| Francis James Child Memorial, | 1,478.41 | |
| Fund of the Class of 1851, | 115.67 | |
| Book Fund of the Class of 1881: | | |
| Interest, | \$180.25 | |
| Adjustment on account of charges for | | |
| 1915-16, | 219.54 | 399.79 |
| Edwin Conant ($\frac{1}{4}$ income), | 359.43 | |
| Constantius ($\frac{1}{4}$ income), | 681.45 | |
| Archibald C. Coolidge and Clarence L. Hay | 276.45 | |
| S. Newton Cutler, | 52.58 | |
| W. Bayard Cutting Bequest, | 669.80 | |
| Peter P. F. Degrand Bequest, | 606.77 | |
| Denny, | 281.14 | |
| Eliza Farrar, | 277.69 | |
| John Hays Gardiner Memorial, | 112.42 | |
| Department of German, | 147.65 | |
| Price Greenleaf (part), | 1,000.00 | |
| Charles Gross Memorial, | 84.25 | |
| George S. and Ellen S. Hale, | 311.01 | |
| Edward H. Hall, | 540.95 | |
| Frederic Hilborn Hall Memorial, | 219.75 | |
| Horace A. Haven, | 161.09 | |
| Francis B. Hayes, | 533.38 | |
| George Hayward, | 282.32 | |
| Thomas Hollis, | 127.05 | |
| Sidney Homer, | 110.78 | |
| Jarvis, | 26.83 | |
| Horatio King (part), | 116.09 | |
| Kittredge Anniversary Fund, | 223.35 | |
| Frederick A. Lane, | 280.16 | |
| George C. Lodge and Joseph Trumbull | | |
| Stickney Memorial, | 177.16 | |
| Lowell, | 1,605.92 | |
| Francis Cabot Lowell, | 545.23 | |
| James Jackson Lowell, | 400.72 | |
| Charles Minot, | 3,135.78 | |
| Amount carried forward, | \$17,233.27 | |

LIBRARY (CONTINUED)

INCOME

| | | |
|--|-------------|-------------|
| Amount brought forward, | \$17,233.27 | |
| Income of Book Funds and Gifts and Receipts for the purchase of books (<i>continued</i>). | | |
| Charles Eliot Norton, | 482.71 | |
| Lucy Osgood, | 380.58 | |
| Mary Osgood, | 367.30 | |
| Francis Parkman Memorial, | 279.52 | |
| George F. Parkman, | 1,307.19 | |
| B. Osgood Pierce, | 38.87 | |
| James Mills Peirce Bequest, | 30.02 | |
| Charles Elliott Perkins Memorial (gift), . . . | 1,000.00 | |
| Professorship of Latin-American History and Economics (part), | 3,817.82 | |
| Hugo Reisinger Bequest, | 130.19 | |
| Francis Sales, | 203.48 | |
| Salisbury, | 290.10 | |
| Sever, | 1,072.38 | |
| Samuel Shapleigh, | 208.68 | |
| George B. Sohler (part), | 123.38 | |
| Clement Lawrence Smith, | 51.96 | |
| Strobel Memorial (Class of 1877), | 161.20 | |
| Strobel Memorial (Siam), | 108.92 | |
| Subscription, | 548.89 | |
| Charles Sumner, | 1,992.79 | |
| Kenneth Matheson Taylor, | 263.58 | |
| Elizabeth Torrey, | 75.04 | |
| Daniel Treadwell ($\frac{1}{2}$ income), | 310.34 | |
| John Harvey Treat Book Fund, | 2,614.22 | |
| Ichabod Tucker, | 225.07 | |
| 20th Mass. Regiment of Volunteer Infantry, . . | 46.61 | |
| Wales Income for Books, | 300.00 | |
| James Walker, | 843.00 | |
| Thomas W. Ward, | 283.66 | |
| Julian Palmer Welsh Memorial, | 162.12 | |
| J. Huntington Wolcott, | 1,058.27 | |
| Chauncey Wright, | 64.22 | \$36,074.88 |
| Gifts for books: | | |
| Gifts, | \$13,742.22 | |
| Interest, | 262.57 | \$14,004.79 |
| Sale of duplicate books, | 1,164.52 | |
| Received for books lost, | 166.63 | |
| Received for fines, | 629.29 | 15,965.23 |
| Gifts for Special Purposes. | | |
| Gifts for new equipment, interest, | \$92.40 | |
| Gift for services, | 300.00 | \$92.40 |
| Amount carried forward, | | \$52,432.51 |

LIBRARY (CONTINUED)

INCOME

Amount brought forward, \$52,432.51

Income of Funds for Special Purposes.

| | | |
|---|----------|----------|
| Henry Weston Farnsworth Memorial, expenses of Farnsworth room, | \$194.72 | |
| R. M. Hodges Fund (part), for publishing Bibliographical Contributions, | 504.24 | |
| Robert Gould Shaw Fund, maintenance of theatre collection, | 2,610.00 | 3,308.96 |

Income of Funds for general purposes.

| | | |
|---|-----------|-----------|
| Anonymous Fund for Library, | \$800.00 | |
| Daniel Austin, | 402.06 | |
| Edwin Conant ($\frac{1}{2}$ income), | 1,078.30 | |
| Constantius ($\frac{1}{2}$ income), | 681.45 | |
| Price Greenleaf (part), | 16,627.50 | |
| Henry L. Pierce, | 2,575.00 | |
| Henry L. Pierce, Residuary (part), | 2,369.02 | |
| Stephen Salisbury Bequest, | 263.68 | |
| James Savage (part), | 1,397.25 | |
| Amey Richmond Sheldon, | 15,795.98 | |
| Daniel Treadwell ($\frac{1}{2}$ income), | 310.34 | |
| Eben Wright, | 5,150.00 | 47,450.58 |

| | | |
|---|----------|--------------|
| Fees for use of Library, | \$270.00 | |
| Sales of Bibliographical Contributions, | 6.89 | |
| Sales of other publications, | 1.55 | |
| Sales of printed cards, | 1,081.58 | |
| Contribution Radcliffe College toward expenses, | 1,000.00 | |
| Sale of photographs, | 172.70 | |
| Sale of scrap iron, | 200.00 | 2,732.22 |
| | | \$105,924.27 |

Balance constituted as follows:

| | |
|--|-------------|
| Deficiency of restricted income met by | |
| Charges against Funds and Gifts, | \$5,178.48 |
| Advances charged to General Suspense, | 4.82 |
| Deficiency of general income carried to Schedule 10, | 50,162.41 |
| | \$55,345.71 |

Less Balance of restricted income

| | | |
|---|-------------|--------------|
| Added to Funds and Gifts, | \$12,929.77 | |
| Applied to pay advances previously charged to General Suspense, | 454.54 | 13,384.31 |
| | | 41,961.40 |
| | | \$147,885.67 |

LIBRARY (CONTINUED)

EXPENDITURE

For Books, from the following Funds, Gifts, etc.

| | |
|--|----------|
| Francis Boott, | \$623.78 |
| Bowditch, | 41.77 |
| Bright, | 1,293.99 |
| Castle, | 17.61 |
| Francis James Child Memorial, | 671.02 |
| Fund of the Class of 1851, | 310.10 |
| Book Fund of the Class of 1881, | 106.91 |
| Edwin Conant, | 250.18 |
| Constantius, | 402.85 |
| A. C. Coolidge and C. L. Hay, | 362.54 |
| S. Newton Cutler, | 63.62 |
| W. Bayard Cutting Bequest, | 967.12 |
| Peter P. F. Degrand Bequest, | 264.01 |
| Denny, | 174.22 |
| Farrar, | 48.73 |
| John Hays Gardiner Memorial, | 50.84 |
| Department of German, | 31.57 |
| Price Greenleaf (part), | 899.30 |
| Charles Gross Memorial, | 5.49 |
| George S. and Ellen S. Hale, | 200.04 |
| Edward H. Hall, | 444.24 |
| Frederic Hilborn Hall Memorial, | 33.63 |
| Haven, | 32.99 |
| Hayes, | 549.82 |
| Hayward, | 90.94 |
| Hollis, | 149.22 |
| Homer, | 70.09 |
| Jarvis, | 42.28 |
| Horatio King, | 199.37 |
| Kittredge Anniversary, | 287.45 |
| Lane, | 317.68 |
| Latin-American Professorship, | 4,170.66 |
| G. C. Lodge and J. T. Stickney Memorial, | 116.64 |
| Lowell, | 853.99 |
| Francis Cabot Lowell, | 401.49 |
| James Jackson Lowell, | 19.06 |
| Minot, | 1,388.82 |
| Charles Eliot Norton, | 242.31 |
| Lucy Osgood, | 266.09 |
| Mary Osgood, | 146.77 |
| Francis Parkman Memorial, | 230.84 |
| George F. Parkman, | 1,480.20 |
| James Mills Peirce Bequest, | 19.12 |
| Charles Elliott Perkins Memorial, | 693.40 |

Amount carried forward, \$18,982.74

LIBRARY (CONTINUED)

EXPENDITURE

Amount brought forward, \$18,932.74

For Books, from the following Funds, Gifts, etc.

(continued).

| | | |
|--|-------------|-------------|
| Hugo Reisinger Bequest, | 48.88 | |
| Sales, | 242.25 | |
| Salisbury, | 37.80 | |
| Sever, | 870.53 | |
| Shapleigh, | 186.38 | |
| Clement Lawrence Smith, | 5.11 | |
| George B. Sohler (part), | 207.08 | |
| Strobel Memorial (1877), | 47.62 | |
| “ “ (Siam), | 32.61 | |
| Subscription, | 453.40 | |
| Sumner, | 1,108.68 | |
| Kenneth Matheson Taylor, | 100.05 | |
| Elizabeth Torrey, | 207.92 | |
| Daniel Treadwell, | 240.80 | |
| John Harvey Treat, | 1,199.54 | |
| Tucker, | 137.49 | |
| Wales, | 182.95 | |
| Walker, | 691.18 | |
| Ward, | 248.55 | |
| Julian Palmer Welsh Memorial, | 221.66 | |
| J. Huntington Wolcott, | 570.39 | |
| Chauncey Wright, | 65.56 | |
| From Sundry gifts for books, | 13,685.98 | |
| Duplicate money and receipts for lost books, | 1,435.27 | |
| Fines, | 639.92 | \$41,799.74 |
| From Henry Weston Farnsworth Memorial, expenses of Farnsworth Room, | \$8.95 | |
| R. M. Hodges Fund, publishing Bibliographical Contributions, | 235.76 | |
| Robert Gould Shaw Fund, maintenance of theatre collection, | 1,869.50 | 2,114.21 |
| From Gift for equipment of rest room, | \$5.00 | |
| “ “ equipment Winsor Memorial Room, | 18.92 | |
| “ “ new equipment, | 537.18 | |
| “ “ frame Chaucer portrait, | 18.96 | 580.06 |
| General. | | |
| Salaries, | | 23,550.00 |
| Services and wages (part), | \$41,487.96 | |
| Equipment and supplies, | 1,400.19 | |
| Stationery, postage, telephone and telegraph, | 1,542.07 | |
| Binding (part), | 4,667.37 | |
| Amounts carried forward, | \$49,097.59 | \$68,044.01 |

LIBRARY (CONTINUED)

EXPENDITURE

| | | | |
|--|-----------|-------------|---------------------|
| Amounts brought forward, | | \$49,097.59 | \$68,044.01 |
| General (<i>continued</i>). | | | |
| General printing, | 752.44 | | |
| Printed cards, | 1,652.99 | | |
| Freight, express, etc. (part), | 867.92 | | |
| Laundry, | 84.00 | | |
| Sundries, | 170.08 | | 52,125.02 |
| Building expenses, Widener Library : | | | |
| Repairs, | \$474.64 | | |
| Caretaking, | 11,174.99 | | |
| Water, heat, light, power, etc., | 12,504.70 | | |
| Repairs to heating equipment, | 78.63 | | 24,232.96 |
| University charge : | | | |
| Treasurer's Office, care of investments, | \$833.33 | | |
| Bursar's Office, collections and payments, | 643.92 | | |
| Inspector of Grounds and Buildings, salary and expenses, | 718.98 | | |
| Watchmen, | 910.25 | | |
| Engineer, | 215.71 | | |
| Purchasing Agent, | 166.49 | | 3,483.68 |
| | | | <u>\$147,885.67</u> |

SCHEDULE 10**UNIVERSITY, COLLEGE, AND LIBRARY
COMBINED ACCOUNTS**

For the year ended June 30, 1917

| | |
|--|---------------------|
| Deficit in University, Schedule 7, | \$55,411.73 |
| Deficit in Library, Schedule 9, | 50,162.41 |
| | <u>\$105,574.14</u> |
| Surplus in College, Schedule 8, | 98,070.35 |
| Deficit met by the unrestricted principal of the Charles Nicholas McCall Fund , | <u>\$7,503.79</u> |

SCHEDULE 11**SUMMER SCHOOLS
FACULTY OF ARTS AND SCIENCES****INCOME AND EXPENDITURE**

For the year ended June 30, 1917

INCOME**School of 1916.**Interest on balance, **\$63.23****Receipts from students :****Tuition fees.**

General, \$19,488.52

Physical Education, 7,537.50 \$27,021.02

Registration fees, 3,006.00

Auditors fees, 1,585.00

Historical Excursions, 56.64

Board and room rents Freshman Halls, 15,253.88 46,922.54Sale of publication, Case Studies Abnormal Type, 31.63 \$47,017.39**School of 1917.**Income of **Sayles Fund**, Summer Course in Geology, 536.63\$47,554.02

SUMMER SCHOOLS (CONTINUED)

EXPENDITURE

School of 1916.

Dean's Office :

| | | |
|--|----------|------------|
| Salary of Dean, | \$600.00 | |
| Services and wages, | 407.12 | |
| Office supplies, | 114.85 | \$1,121.97 |
| Salaries for Instruction, | | 19,036.97 |
| General Expenses, | | 1,160.12 |
| Public Exercises, | | 377.84 |
| Historical Excursions, | | 200.00 |
| Hospitality, | | 247.85 |
| Scholarships, | | 118.73 |
| Advertising, | | 267.86 |
| Expenses of Freshman Halls, including Dining Hall, | | 13,582.63 |

University charge :

| | |
|--|-----------------|
| Bursar's Office, collections and payments, | \$271.13 |
| Publication Office, Expenses, | 268.93 |
| Inspectors Office Expenses, | 9.66 |
| | <u>\$549.72</u> |

Less amount transferred to Schedule 8, 191.13 358.59 \$36,432.06

School of Physical Education.

General, 5,289.74

School of 1917.

From Sayles Fund, 422.03

Dean's Office :

| | | |
|--|----------|--------------------|
| Services and wages, | \$619.52 | |
| Office supplies, | 364.67 | \$984.19 |
| General Expenses, | | 32.77 |
| Advertising, | | 1,017.66 |
| Hospitality, | 8.00 | 2,042.62 |
| School of Physical Training, | | 446.46 |
| | | <u>\$44,622.91</u> |

Balance constituted as follows :

| | |
|--|-------------------|
| Balance of restricted income added to Funds and Gifts, | \$114.60 |
| Balance of general income carried to General Suspense, | 3,191.51 |
| | <u>\$3,306.11</u> |

Less Deficiency of restricted income met by

| | | |
|--|--------|---------------------------|
| Charges against Funds and Gifts, | 375.00 | 2,931.11 |
| | | <u><u>\$47,554.02</u></u> |

SCHEDULE 12

SCHOOLS OF ARCHITECTURE AND LANDSCAPE ARCHITECTURE

INCOME AND EXPENDITURE

For the year ended June 30, 1917

INCOME

Income of Funds and Gifts.

Departments of Architecture and Landscape

| | | |
|--|-----------|-------------|
| Architecture Additions Fund, interest, \$10,580.00 | | |
| Gift, | 18,150.62 | \$28,680.62 |
| Gordon McKay Endowment (part), | 8,768.89 | |
| Nelson Robinson, Jr. (part), | 28,612.50 | |
| Revere Family Memorial, | 1,052.61 | |
| Arthur Rotch, | 1,287.50 | |
| Gurdon Saltonstall, | 8,090.00 | |
| Josiah Stickney, | 607.29 | |
| Gift for Bond collection, | 1,298.54 | \$68,397.95 |

Income of Fellowship Funds.

| | | |
|--|------------|----------|
| Julia Amory Appleton, | \$1,200.88 | |
| Charles Eliot, | 1,390.71 | |
| Nelson Robinson, Jr. (part), | 1,000.00 | |
| Frederick Sheldon (part), | 750.00 | 4,841.54 |

Income of Scholarship Funds.

| | | |
|---------------------------------|----------|----------|
| Edward Austin (part), | \$950.00 | |
| Bright (part), | 250.00 | |
| Francis H. Cummings, | 354.32 | |
| Eveleth (part), | 200.00 | |
| Pennoyer (part), | 100.00 | 1,854.32 |

Receipts from students.

| | | |
|---------------------------------------|------------|------------|
| Tuition fees. Architecture, | \$6,094.00 | |
| Landscape Architecture, | 8,247.00 | \$9,841.00 |
| Graduation fees, | 160.00 | 9,501.00 |

Miscellaneous.

| | | |
|---|--|--------------------|
| Sales of Architectural Quarterly, | | 2.93 |
| | | <u>\$84,097.74</u> |

EXPENDITURE

From Fellowship Funds.

| | | |
|---------------------------------|------------|------------|
| Nelson Robinson, Jr., | \$1,000.00 | |
| Sheldon, | 750.00 | \$1,750.00 |

From Scholarship Funds.

| | | |
|---|----------|----------|
| Edward Austin Scholarships in Architecture, | \$950.00 | |
| Bright, | 250.00 | |
| Francis H. Cummings, | 300.00 | |
| Eveleth, | 200.00 | |
| Pennoyer, | 100.00 | 1,800.00 |

| | | |
|-----------------------------------|--|------------|
| Amount carried forward, | | \$3,550.00 |
|-----------------------------------|--|------------|

SCHOOLS OF ARCHITECTURE AND LANDSCAPE ARCHITECTURE (CONTINUED)

EXPENDITURE

| | | | |
|--|-------------|------------|--------------------|
| Amount brought forward, | | \$3,550.00 | |
| For Scholarships from general funds. | | | |
| Architectural League, | \$600.00 | | |
| University, | 1,100.00 | | 1,700.00 |
| From Sundry Funds for Special Purposes. | | | |
| Revere Family Memorial, | \$741.36 | | |
| Nelson Robinson, Jr.: | | | |
| Expenses of Nelson Robinson, | | | |
| Jr., Hall, | \$6,021.92 | | |
| University charges: | | | |
| Bursar's Office, | \$49.26 | | |
| Inspector's Office, | 122.91 | | |
| Janitor, | 81.79 | | |
| Engineer, | 34.85 | | |
| Watchman, | 46.83 | 835.64 | 6,357.56 |
| Gift for Bond collection, | | 1,303.35 | 8,402.27 |
| From Appropriations. | | | |
| Architecture, | \$1,089.88 | | |
| Landscape Architecture, | 3,167.33 | | 4,257.21 |
| General. | | | |
| Salaries, | \$32,516.66 | | |
| Stationery and postage, | 21.01 | | |
| Printing, | 817.84 | | |
| Honoraria to lecturers, | 100.00 | | |
| Services and wages, | 26.53 | | |
| Sundries, | 1.98 | | 32,984.02 |
| University charge. | | | |
| President's Office, salaries and expenses, | \$123.86 | | |
| Treasurer's Office, care of investments, | 550.92 | | |
| Bursar's Office, collections and payments, | 333.90 | | |
| Publication Office, salary and expenses, | 53.78 | | |
| Medical Adviser, salary and expenses, | 60.24 | | |
| Regent's Office, | 2.07 | | |
| Quinquennial Catalogue, | 2.89 | | |
| Annual Catalogue, | 105.03 | | |
| Purchasing Agent, | 36.24 | | |
| Inspector of Grounds and Buildings, | 1.90 | | |
| Watchmen, | 4.51 | | 1,275.34 |
| Phillips Brooks House, Schedule 33, | \$28.81 | | |
| Hemenway Gymnasium, Schedule 34, | 146.86 | | |
| Stillman Infirmary, Schedule 35, | 116.00 | | 291.17 |
| | | | \$52,460.01 |
| Balance of restricted income added to Funds and Gifts, | | | 81,637.73 |
| | | | <u>\$84,097.74</u> |

SCHEDULE 13

SCHOOLS OF ENGINEERING AND MINING

INCOME AND EXPENDITURE

For the year ended June 30, 1917

INCOME

Income of Funds for Salaries and General Purposes.

| | | |
|---|------------|-------------|
| Abbott Lawrence (part), | \$1,584.55 | |
| James Lawrence (part), | 1,297.15 | |
| Gordon McKay Endowment (part), | 66,413.58 | |
| Professorship of Engineering, | 2,101.51 | |
| Edward Whitney , | 364.17 | \$71,760.96 |

Income of Scholarship and Beneficiary Funds and Gifts.

| | | |
|--|----------|----------|
| Joseph Eveleth (part), | \$400.00 | |
| William Hilton (part), | 225.00 | |
| Hennen Jennings (part), | 630.93 | |
| Henry Weidemann Locke (gift), | 100.00 | |
| Lawrence Scientific School Loans Returned Fund: | | |
| Interest, | \$436.80 | |
| Loans returned, | 1,722.87 | 2,159.67 |
| Susan B. Lyman Loan Fund, | 132.22 | 3,647.82 |

Gifts for Special Purposes.

| | | |
|--|---------|-------|
| Edward B. Dane gift, research in Sanitary En- gineering, interest, | \$24.07 | |
| Gift for Summer Mining Camp, interest, | 43.59 | 67.66 |

Receipts from students.

Tuition fees:

| | | |
|--|-------------|--------------------|
| For 1915-16, joint school Harvard- Mass. Institute of Technology, . . | \$13,434.96 | |
| For 1916-17, Harvard Mining School, | 796.66 | \$14,231.62 |
| Laboratory fees, Mining , | 397.00 | 14,628.62 |
| | | <u>\$90,105.06</u> |

Balance constituted as follows:

| | | |
|---|--------------------|--|
| Deficiency of restricted income met by charges against Funds and Gifts, | \$317.95 | |
| Deficiency of general income met by the unrestrict- ed principal of the James C. Carter Fund, . . | 49,104.88 | |
| | <u>\$49,422.83</u> | |

Less

Balance of restricted income added to

| | | |
|------------------------------------|----------|----------------------------|
| Funds and Gifts , | 2,523.91 | 46,898.92 |
| | | <u><u>\$137,008.98</u></u> |

SCHOOLS OF ENGINEERING AND MINING (CONTINUED)

EXPENDITURE

From Scholarships and Beneficiary Funds.

| | | |
|---|----------|------------|
| Eveleth Scholarship, | \$400.00 | |
| Hilton Scholarship, | 225.00 | |
| Lawrence Scientific School Loans Returned Fund, | 425.00 | |
| Henry Weidemann Locke Scholarship, . . . | 100.00 | |
| E. D. Peters, | 250.00 | \$1,400.00 |

From Sundry Funds for Special Purposes.

| | | |
|--|---------|--------|
| Gift of Ernest B. Dane, Research in Sanitary Engineering, | \$92.02 | |
| Gift for Summer course Mining Camp, | 17.50 | 109.52 |

From Appropriations.

| | | |
|------------------------|------------|----------|
| Engineering, | \$1,839.70 | |
| Mining, | 777.46 | 2,117.16 |

From Laboratory fees.

| | | |
|-------------------|--|--------|
| Mining, | | 397.00 |
|-------------------|--|--------|

General.

| | | |
|--|-------------|------------|
| Teaching salaries, | \$65,871.88 | |
| Share of expenses, joint school Harvard-Massachusetts Institute of Technology, 1915-16, | 23,938.96 | |
| Share of expenses, joint school Harvard-Massachusetts Institute of Technology, 1916-17, | 39,761.71 | |
| Printing, | 161.08 | |
| Diplomas, | 44.05 | 129,277.63 |
| Repairs Rotch Building, | \$41.66 | |
| Caretaking, Rotch Building, | 1,771.81 | 1,813.47 |

University Charge.

| | | |
|--|------------|----------|
| President's Office, salaries and expenses, | \$1,142.23 | |
| Treasurer's Office, salaries and expenses, | 61.88 | |
| Bursar's Office, salaries and expenses, | 143.86 | |
| Inspector's Office, salaries and expenses, | 19.15 | |
| Quinquennial Catalogue, | 11.56 | |
| Annual Catalogue, | 367.09 | |
| Watchmen, | 98.70 | |
| Engineer, | 22.20 | |
| Purchasing Agent, | 28.08 | 1,889.20 |

\$137,003.98

GRADUATE SCHOOL OF BUSINESS ADMINISTRATION

INCOME AND EXPENDITURE

For the year ended June 30, 1917

INCOME

Income of Funds.

| | | |
|---|----------|-------------|
| Business School balance, interest, | \$15.70 | |
| Edmund Cogswell Converse Professorship in | | |
| Banking, | 6,869.48 | |
| Endowment Fund, | 8,165.60 | |
| James J. Hill Fund, | 6,437.50 | |
| James J. Hill Professorship of Transportation, | 6,506.20 | |
| Gordon McKay Endowment (part), | 8,000.00 | |
| Isador Straus Memorial, | 515.82 | |
| Business School Publication Fund. Sale of publications, | 62.74 | |
| Bureau of Business Research Publication Fund. | | |
| Sale of publications, | 228.84 | |
| Daniel A. Buckley Scholarships, interest, | 500.00 | \$27,296.38 |

Gifts for immediate use:

| | |
|--------------------------------------|------------|
| For ninth year's expenses, | \$3,050.00 |
|--------------------------------------|------------|

Other Gifts:

| | | |
|---|-----------|-----------|
| For general use, | 175.00 | |
| For deficit. Gifts, | 11,950.00 | |
| For loans. Interest, | \$24.16 | |
| Gifts, | 125.00 | |
| Loans returned, | 674.66 | |
| Allotment of general income, | 800.00 | 1,123.82 |
| For courses in printing, | 100.00 | |
| For books on transportation, | 100.00 | |
| George O. May , for prizes, | 150.00 | |
| Frederick L. and John C. Olmstead , books, | 325.00 | |
| John R. Simpson , books, | 75.00 | 17,048.82 |

Receipts from students.

| | | |
|---|-------------|-------------|
| Tuition fees, Regular students, | \$34,305.00 | |
| Summer courses, | 400.00 | \$34,705.00 |
| Graduation fees, | 1,000.00 | |
| Laboratory fees, | 14.00 | 35,719.00 |

Miscellaneous.

| | | |
|-------------------------------------|-------|--------------------|
| Royalties on publication, | 60.80 | |
| | | <u>\$80,124.95</u> |

GRADUATE SCHOOL OF BUSINESS (CONTINUED)

EXPENDITURE

Instruction.

| | | |
|---|-------------|-------------|
| Salaries of instructing staff, | \$44,098.39 | |
| Compensation for outside lecturers: | | |
| From general funds, | \$5,049.50 | |
| From special funds, | 100.00 | 5,149.50 |
| Hospitality and travelling expenses of lecturers, . . | 388.04 | |
| Services of assistants in courses, | 1,104.00 | \$50,739.93 |

Accessories of instruction.

| | | |
|---|------------|------------|
| Books and periodicals: | | |
| From general funds, | \$1,259.47 | |
| From special funds, | 325.68 | \$1,585.15 |
| Binding books and periodicals: | | |
| From general funds, | \$493.20 | |
| From special funds, | 90.70 | 583.90 |
| Reading room salaries, | 2,806.92 | |
| Reading room supplies and expenses, | 690.57 | |
| Equipment and supplies, | 401.97 | |
| Stenographic wages, | 1,377.19 | |
| Stationery, postage, telephone and express, | 233.63 | |
| Equipping and remodelling conference and class rooms, | 147.25 | |
| Printing for courses, | 137.90 | |
| Proctors, | 206.50 | |
| Diplomas, | 24.50 | |
| Expenses Summer courses in Stores keeping and Cost accounting, | 8.70 | 8,198.18 |

Investigations.

| | | |
|---|------------|------------|
| Bureau of Business Research: | | |
| From general funds, | \$7,077.50 | |
| From special funds, | 338.96 | \$7,416.46 |
| Travelling expenses for instructors research: | | |
| From general funds, | \$486.14 | |
| From special funds, | 132.00 | 568.14 |
| | | 7,984.60 |

Awards to Students.

| | | |
|---|----------|----------|
| Annual grant to Students Loan Fund, | \$300.00 | |
| Loans to students, | 675.00 | |
| Prizes, | 150.00 | |
| Buckley Scholarships, | 500.00 | 1,625.00 |

Administration.

| | | |
|---|------------|-------------|
| Salaries for administration, | \$1,218.33 | |
| Travelling expenses for administration, | 99.15 | |
| Supplies, | 87.33 | |
| Printing, | 1,798.82 | |
| Amounts carried forward, | \$3,148.63 | \$68,547.71 |

GRADUATE SCHOOL OF BUSINESS (CONTINUED)

EXPENDITURE

| | | |
|---|-----------------|---------------------------|
| Amounts brought forward, | \$8,148.63 | \$68,547.71 |
| Administration (continued). | | |
| Telegraph and telephone, | 204.98 | |
| Postage and express, including publicity, | 321.72 | |
| Sundries, | 25.00 | 3,700.33 |
| University charge: | | |
| President's Office, salaries and expenses, | \$436.44 | |
| Treasurer's Office, care of investments, | 253.08 | |
| Bursar's Office, collections and payments, | 974.22 | |
| Inspector's Office, salary and expenses, | 25.08 | |
| Medical Adviser, salary and expenses, | 212.28 | |
| Regent's Office, | 7.28 | |
| Watchmen, | 15.89 | |
| Publication Office, salary and expenses, | 295.82 | |
| Quinquennial Catalogue, | 4.82 | |
| Annual Catalogue, | 154.90 | |
| Purchasing Agent, | 75.74 | 2,455.55 |
| Phillips Brooks House, Schedule 33, | \$101.52 | |
| Hemenway Gymnasium, Schedule 34, | 515.78 | |
| Stillman Infirmary, Schedule 35, | 564.00 | 1,181.25 |
| | | \$75,884.84 |
| Balance constituted as follows: | | |
| Balance of restricted income added to Funds and Gifts, | \$2,225.13 | |
| Balance of general income carried to General Suspense for future use, | 3,801.10 | |
| | | \$6,026.23 |
| <i>Less</i> Deficiency of restricted income met by charges against Funds and Gifts, | 1,786.12 | 4,240.11 |
| | | <u><u>\$80,124.95</u></u> |

SCHEDULE 15

DIVINITY SCHOOL

INCOME AND EXPENDITURE

For the year ended June 30, 1917

INCOME

Income of Funds for Instruction or for General Purposes.

| | |
|--|----------|
| Divinity School balance, interest, | \$173.75 |
| Endowment, | 3,680.40 |
| Oliver Ames, | 875.50 |
| Hannah C. Andrews, | 27.04 |

Amount carried forward, \$4,756.69

DIVINITY SCHOOL (CONTINUED)

INCOME

| | | |
|---|------------|-------------|
| Amount brought forward, | \$4,756.69 | |
| Income of Funds for Instruction or for General Purposes (continued). | | |
| Daniel Austin, | 57.42 | |
| Edward Austin (part), | 500.00 | |
| Adams Ayer, | 51.50 | |
| Joseph Baker, | 786.66 | |
| Beneficiary money returned (balance), | 16.58 | |
| Bussey Professorship, | 1,935.58 | |
| Bussey Trust (part), | 6,117.63 | |
| Walter Channing Cabot, | 2,000.00 | |
| Joshua Clapp, | 112.17 | |
| Edwin Conant, | 257.50 | |
| Dexter Lectureship, | 1,315.52 | |
| Frothingham Professorship, | 3,023.20 | |
| Abraham W. Fuller, | 54.08 | |
| Lewis Gould, | 46.92 | |
| John Hancock Professorship, | \$309.41 | |
| Charles L. Hancock (part), | 3,190.59 | 3,500.00 |
| Haven, | 257.50 | |
| Samuel Hoar, | 54.08 | |
| Hollis Professorship of Divinity, | 1,777.68 | |
| Henry P. Kidder, | 515.00 | |
| Henry Lienow, | 473.03 | |
| Caroline Merriam, | 54.08 | |
| John Newgate, | 17.15 | |
| Parkman Professorship, | 824.82 | |
| Francis Greenwood Peabody Professorship, | 198.18 | |
| Plummer Foundation, | 1,854.24 | |
| John W. Quinby, | 34.20 | |
| Abby Crocker Richmond, | 51.50 | |
| John L. Russell, | 51.50 | |
| William B. Spooner, | 515.00 | |
| Thomas Tileston of New York Endowment, | 2,060.00 | |
| Mary P. Townsend, | 270.38 | |
| Winthrop Ward, | 108.15 | |
| Winn Professorship, | 3,159.32 | |
| Augustus Woodbury Bequest, | 53.46 | |
| Society for Promoting Theological Education Gift, Library, | 4,648.20 | |
| Gift for salary, | 1,000.00 | |
| Gift for printing Anniversary Report, | 25.00 | \$42,028.92 |
| Income of Scholarship and Beneficiary Funds, | | 2,837.60 |
| Income of Prize Funds, | | 147.91 |
| Amount carried forward, | | \$45,014.43 |

DIVINITY SCHOOL (CONTINUED)

INCOME

| | | |
|--|------------|--------------------|
| Amount brought forward, | | \$45,014.43 |
| Income of Funds and Gifts for Special Purposes. | | |
| Bushton Dashwood Burr, | \$232.52 | |
| Louisa J. Hall, | 317.70 | 550.22 |
| Receipts from Students. | | |
| Tuition fees, | \$4,280.00 | |
| Graduation fees, | 120.00 | |
| Divinity Hall, rents, | 3,632.50 | 8,032.50 |
| Miscellaneous. | | |
| Sale Quinquennial catalogue, | | .45 |
| | | <u>\$53,597.60</u> |

EXPENDITURE

| | | |
|--|-------------|-------------|
| From Scholarship and Beneficiary Funds, | | \$2,690.00 |
| From Prize Funds, | | 50.00 |
| From Funds and Gifts for Special Purposes. | | |
| Bushton Dashwood Burr, | \$121.44 | |
| Louisa J. Hall, | 318.65 | |
| John W. Quinby, | 20.00 | 460.09 |
| General. | | |
| Salaries, | \$32,762.50 | |
| Services and wages, | 784.07 | |
| Equipment and supplies, | 21.27 | |
| Stationery, postage, telephone and telegraph, . . . | 167.52 | |
| Care of grounds, | 110.00 | |
| Printing, | 506.58 | |
| Diplomas, | 5.95 | |
| Furniture for Divinity Hall, | 686.74 | |
| Contribution to American School of Oriental Study, | 50.00 | |
| Sundries, | 21.60 | |
| Share Library expenses, Andover Theological Seminary. | | |
| Salaries, | \$1,940.00 | |
| Services and wages, | 301.83 | |
| Equipment and supplies, . . . | 21.51 | |
| Stationery and postage, . . . | 72.04 | |
| Printing, | 8.62 | |
| Books, | 174.47 | |
| Binding, | 41.45 | |
| Printed cards, | 75.00 | |
| Heat, light and janitor service, | 891.13 | 3,526.05 |
| | | 38,642.28 |
| Divinity Library. | | |
| Repairs and equipment, land and building, | \$44.23 | |
| Caretaking, land and building, | 1,233.02 | 1,277.25 |
| Amount carried forward, | | \$48,119.62 |

DIVINITY SCHOOL (CONTINUED)

EXPENDITURE

| | | | |
|---|------------|------------|---------------------------|
| Amount brought forward, | | | \$43,119.62 |
| Divinity Hall. | | | |
| Repairs and equipment, land and building, | \$1,366.90 | | |
| Caretaking, land and building, | 3,012.83 | | |
| Changes in building, | 1,906.49 | | 6,286.22 |
| University charge. | | | |
| President's Office, salaries and expenses, | \$143.53 | | |
| Treasurer's Office, care of investments, | 430.55 | | |
| Bursar's Office, collections and payments, | 205.83 | | |
| Medical Adviser, salary and expenses, | 69.81 | | |
| Regent's Office, | 2.89 | | |
| Inspector of Grounds and Buildings, salary and expenses, | 298.05 | | |
| Publication Office, salary and expenses, | 107.59 | | |
| Quinquennial Catalogue, | 33.72 | | |
| Annual Catalogue, | 202.11 | | |
| Maintenance of grounds, | 422.77 | | |
| Watchmen, | 154.48 | | |
| Engineer, | 36.05 | | |
| Janitor, | 84.59 | | |
| Purchasing Agent, | 3.11 | | 2,194.58 |
| Semitic Museum, Schedule 29, | \$466.86 | | |
| Phillips Brooks House, Schedule 33, | 15.09 | | |
| Hemenway Gymnasium, Schedule 34, | 76.66 | | 558.61 |
| | | | \$52,159.03 |
| Balance constituted as follows: | | | |
| Balance of restricted income added to Funds and Gifts, | | \$2,092.34 | |
| Less, | | | |
| Deficiency of restricted income met by charges against Funds and Gifts, | \$583.77 | | |
| Deficiency of general income met by previous balances credited to General Suspense, | 70.00 | 653.77 | 1,438.57 |
| | | | <u>\$53,597.60</u> |

LAW SCHOOL
INCOME AND EXPENDITURE

For the year ended June 30, 1917

INCOME

Income of Funds for Instruction and General Purposes.

| | | |
|---|------------|-------------|
| Law School balance, interest, | \$2,775.41 | |
| Ames Fund, | 563.67 | |
| Samuel Ames Bequest, | 103.00 | |
| James and Augusta Barnard, | 5,230.05 | |
| Bemis Professorship, | 5,646.82 | |
| Bussey Professorship, | 1,234.97 | |
| Bussey Trust (part), | 6,117.63 | |
| James C. Carter Professorship, | 5,527.24 | |
| Dane Professorship, | 811.13 | |
| Royall Professorship, | 429.56 | |
| Ezra Ripley Thayer Teaching Fellowship, . . | 1,327.88 | |
| Weld Professorship, | 4,892.24 | \$34,659.60 |

Income of Book Funds and Gifts.

Gift of James Munson Barnard and Augusta

| | | |
|-------------------------------|----------|----------|
| Barnard, interest, | \$31.09 | |
| John L. Cadwalader, | 1,030.00 | |
| Law School Book, | 2,421.58 | |
| Law School Library, | 5,150.00 | 8,632.67 |

| | | |
|--|---------------------|--|
| Income of Scholarship, Beneficiary and Prize Funds and Gifts, | 11,725.91 | |
| Tuition fees, | 126,720.00 | |
| Sale of books, | 72.60 | |
| Sale of Library Catalogue, | 50.00 | |
| Sale of Case Books, | 29.03 | |
| Sale of Quinquennial Catalogue, | 3.24 | |
| | <u>\$181,898.05</u> | |

EXPENDITURE

| | | |
|---|-------------------|-------------|
| From Scholarship, Beneficiary and Prize Funds and Gifts, | \$9,336.79 | |
| Scholarships from unrestricted income, | 3,450.00 | |
| Teaching Salaries, | 79,700.00 | |
| Library. | | |
| Salaries librarian and assistant librarian, | \$5,900.00 | |
| Services and wages, | 10,643.23 | |
| From James Munson Barnard and Augusta | | |
| Barnard Gift, books, | 44.11 | |
| James and Augusta Barnard Fund, . . | 5,230.05 | |
| Books from general funds, | 7,327.94 | |
| Binding, | 2,428.90 | |
| Insurance on books at bindery, | 120.50 | |
| Equipment and supplies, | 535.50 | |
| Amounts carried forward, | \$32,230.23 | \$92,486.79 |

LAW SCHOOL (CONTINUED)

EXPENDITURE

| | | | |
|--|------------|--------------|-------------|
| Amounts brought forward, | | \$32,230.23 | \$92,486.79 |
| Library (continued). | | | |
| Stationery, postage and telephones, | 846.88 | | |
| Printed cards, | 78.33 | | |
| Freight and express, | 265.78 | | |
| Photographs and prints, | 100.32 | | |
| Sundries, | 24.00 | | 38,089.98 |
| Administration and General. | | | |
| Salary of Secretary, | \$2,000.00 | | |
| Salaries of Student Advisers, | 2,050.00 | | |
| Services and wages, | 1,468.50 | | |
| Equipment and supplies, | 1,239.04 | | |
| Stationery, postage, telephone and telegraph, . . . | 627.49 | | |
| Printing, | 942.41 | | |
| Advertising, | 160.00 | | |
| Proctors and monitors, | 349.00 | | |
| Diplomas, | 106.70 | | |
| Income of the Ames Fund deposited with Dean, . | 944.75 | | |
| Dues Association of American Law Schools, . . . | 20.00 | | |
| Sundries, | 1.62 | | 9,909.51 |
| Repairs and equipment, land and buildings, | \$1,605.62 | | |
| Caretaking, land and buildings, | 9,090.64 | | 10,696.26 |
| University charge. | | | |
| President's Office, salaries and expenses, | \$1,682.87 | | |
| Treasurer's Office, care of investments, | 513.89 | | |
| Bursar's Office, collections and payments, | 2,249.88 | | |
| Medical Adviser, salary and expenses, | 818.54 | | |
| Regent's Office, | 28.08 | | |
| Inspector of Grounds and Buildings, salary and expenses, | 359.28 | | |
| Publication Office, salary and expenses, | 53.79 | | |
| Quinquennial Catalogue, | 229.20 | | |
| Annual Catalogue, | 383.00 | | |
| Maintenance of grounds, | 314.05 | | |
| Watchmen, | 547.05 | | |
| Janitor, | 270.14 | | |
| Engineer, | 115.12 | | |
| Purchasing Agent, | 116.94 | | 7,681.83 |
| Phillips Brooks House, Schedule 33, | \$391.46 | | |
| Hemenway Gymnasium, Schedule 34, | 1,988.60 | | 2,380.06 |
| Amount carried forward, | | \$156,194.43 | |

LAW SCHOOL (CONTINUED)

EXPENDITURE

Amount brought forward, \$156,194.48

Balance constituted as follows:

Balance of restricted income added to Funds and Gifts:

Scholarship, Beneficiary and Prize

Funds, \$2,524.95

Other Funds, 2,873.98 \$4,898.93

Surplus of general income carried to

General Suspense for future use, 21,329.62

Less \$26,228.55

Deficiency of restricted income met by charges

against Funds and Gifts, 529.98 25,698.62

\$181,898.05

SCHEDULE 17

MEDICAL SCHOOL

INCOME AND EXPENDITURE

For the year ended June 30, 1917

INCOME

Income of Funds for Instruction and General Purposes.

Anonymous Fund in the Department of Theory and

Practice, \$533.75

Edward M. Barringer (part), 1,059.00

Robert C. Billings, 5,000.00

John B. and Buckminster Brown, 3,405.44

Bullard Professorship of Neuropathology, 4,458.00

Herbert L. Burrell Fund (part), 232.98

John C. Cutter Bequest:

Interest, \$394.75

Royalties on publications, 47.21 441.96

Calvin and Lucy Ellis (part), 21,830.20

Samuel E. Fitz, 94.55

Rebecca A. Greene Bequest, 2,888.73

Henry Harris ($\frac{1}{2}$ income), 770.93

Harvard Medical Alumni, 456.55

Harvard Medical Alumni (gifts), 3,000.00

Hersey Professorship ($\frac{1}{2}$ income), 416.47

George Higginson, 5,634.56

John Homans Memorial, 2,690.86

Silas Arnold Houghton Professorship, 433.32

George S. Hyde, 2,576.03

Jackson Professorship of Clinical Medicine, 3,563.44

Amount carried forward, \$59,436.27

MEDICAL SCHOOL (CONTINUED)

INCOME

| | | |
|--|-------------|--------------|
| Amount brought forward, | \$59,436.27 | |
| Income of Funds for Instruction and General Purposes | | |
| <i>(continued).</i> | | |
| Hamilton Kuhn Memorial, | 9,849.38 | |
| William O. Moseley, | 2,778.53 | |
| New subscription, | 2,000.78 | |
| Lyman Nichols, | 516.03 | |
| George F. Parkman, Medical Fund, | 441.92 | |
| Henry L. Pierce (Residuary), | 2,019.67 | |
| John D. Rockefeller, | 51,500.00 | |
| Dr. Ruppner, | 480.80 | |
| School of Comparative Medicine, | 401.29 | |
| George C. Shattuck, | 3,965.50 | |
| James Skillen Memorial, | 582.52 | |
| Francis Skinner, | 2,265.06 | |
| James Stillman Professorship, | 6,148.02 | |
| Mary W. Swett, | 811.90 | |
| Samuel W. Swett, | 1,080.00 | |
| Quincy Tufts, | 103.00 | |
| Henry Willard Williams, | 2,961.66 | |
| Morrill Wyman Medical Research (part), . . | 5,000.00 | |
| Gifts for salaries, | 5,000.00 | \$157,287.33 |
| Income of Fellowship Funds, | | 13,442.53 |
| Income of Funds and Gifts for Scholarships and Aids, | | 9,271.96 |
| Income of Prize Funds. | | |
| Ward Nicholas Boylston, | | 280.47 |
| Income of Sundry Funds for Special Purposes. | | |
| Edward Austin (Bacteriological Laboratory), . | \$551.72 | |
| J. Ingersoll Bowditch, | 516.13 | |
| Boylston, for Medical Books, | 91.52 | |
| Brinckerhoff Fund, | 273.98 | |
| Herbert L. Burrell, Surgery (part), | 71.18 | |
| Duplicate Book Fund. Interest, | \$21.47 | |
| Sales, | 29.00 | 50.47 |
| Thomas Dwight Memorial, | 668.11 | |
| George Fabyan Foundation for Comparative Pathology, | 11,785.66 | |
| George Fabyan Foundation, Special, | 632.26 | |
| Charles F. Farrington, | 2,671.00 | |
| Flattery Research Fund (part), | 127.16 | |
| F. B. Greenough (for surgical research), . . . | 321.46 | |
| Henry Jackson Endowment: | | |
| Interest, | \$5,387.36 | |
| Gift for income, | 155.33 | 5,542.69 |
| Amounts carried forward, | \$23,253.34 | \$180,382.29 |

MEDICAL SCHOOL (CONTINUED)

INCOME

Amounts brought forward, \$23,253.84 \$180,282.29

Income of Sundry Funds for Special Purposes

(continued).

Walter Augustus Lecompte Professorship of

| | | |
|--|----------|--|
| Otology, | 2,801.50 | |
| Harriet Newell Lowell, | 65.34 | |
| Medical Library, | 127.26 | |
| Charles S. Minot Bequest, | 108.66 | |
| E. D. Morgan Gift, Pathological Laboratory, . | 363.33 | |
| Repayments Anatomical Laboratory, | 46.60 | |
| “ Bacteriological Laboratory, | 2.15 | |
| “ Chemical Laboratory, | 866.64 | |
| “ Neuropathological Laboratory, | 4,022.85 | |
| “ Comparative Pathological Laboratory, | 12.00 | |
| “ Physiological Laboratory, | 609.63 | |
| “ Department of Medicine Laboratory, . | 5.40 | |
| “ Preventive Medicine and Hygiene Lab. | 13.10 | |
| “ Syphilological Laboratory, | 3,061.20 | |

Proctor, for the study of Chronic Diseases(part), 2,613.06

Maurice H. Richardson Memorial, 163.51

Henry Francis Sears Fund for Pathology, . . 1,829.80

Surgical Laboratory:

| | | |
|---------------------|------------|----------|
| Gifts, | \$1,000.00 | |
| Interest, | 287.68 | 1,287.68 |

William H. Thorndike, Surgery, 312.04

Zoe D. Underhill Research, 515.00

Warren Fund for Anatomical Museum, 740.10

James C. White Bequest, 75.50

Edward Wigglesworth Professorship of Dermatology, 3,149.74

Morrill Wyman, Medical Research (part), . . 1,254.13 47,299.56

Income of Funds and Gifts for Huntington**Memorial Cancer Hospital.**

| | | |
|---|------------|--|
| Memorial Cancer Hospital Endowment, | \$7,046.88 | |
| Francis Bartlett Free Bed, | 257.50 | |
| T. Jefferson Coolidge for Cancer Research, . | 108.00 | |
| Caroline Brewer Croft, | 4,739.29 | |
| William Endicott Fund, | 1,287.50 | |
| Lawrence Carteret Fenno, | 1,030.00 | |
| Lawrence Carteret Fenno Free Bed, | 257.50 | |
| Flattery Research Fund (part), | 750.00 | |
| Franklin H. Hooper Free Bed, | 257.50 | |
| Amos Lawrence Hopkins Free Bed, | 257.50 | |
| Maria D. Lockwood Memorial, | 2,612.54 | |

Amounts carried forward, \$18,598.71 \$227,581.85

MEDICAL SCHOOL (CONTINUED)

INCOME

| | | |
|--|-------------|---------------------|
| Amounts brought forward, | \$18,598.71 | \$227,581.85 |
| Income of Funds and Gifts for Huntington Memorial | | |
| Cancer Hospital (<i>continued</i>). | | |
| Julia M. Moseley Fund, | 875.00 | |
| Clara Endicott Payson Free Bed, | 257.50 | |
| Memorial Cancer Hospital Proctor Maintenance, | 362.28 | |
| Emily J. Proctor Gift, | 112.02 | |
| Gifts for current use, | 14,155.00 | |
| Memorial Cancer Hospital Research Fund: | | |
| Gifts, | \$51,400.00 | |
| Interest, | 575.59 | 51,975.59 |
| Memorial Cancer Hospital New Laboratory Fund: | | |
| Gifts, | \$10,000.00 | |
| Interest, | 182.15 | 10,182.15 |
| Gift for salary, 1917-18, | 1,000.00] | 97,468.25 |
| Income of Gifts for Special Use. | | |
| Gifts, | \$19,968.00 | |
| Interest and other receipts, | 1,907.27 | 21,870.27 |
| Sale of heat and power, | \$70,015.78 | |
| Less amount taken for income of funds invested in | | |
| Power Plant, | 22,452.62 | 47,563.16 |
| Receipts from students. | | |
| Tuition Fees. | | |
| Regular courses, | \$80,165.50 | |
| Dental students, | 14,000.00 | |
| Division of Medical Sciences, | 1,180.00 | |
| Candidates for degree D. P. H. | 120.00 | \$95,415.50 |
| Matriculation fees, | 610.00 | |
| Examination fees, | 51.00 | |
| Microscope fees, | 1,940.00 | |
| Laboratory fees and supplies. | | |
| Anatomy, | \$192.80 | |
| Bacteriology, | 51.00 | |
| Chemistry, | 119.24 | |
| Clinical Laboratory, | 38.44 | |
| Pathology, | 10.00 | |
| Pharmacology, | 15.00 | |
| Physiology, | 308.00 | |
| Surgery, | 41.44 | 765.92 |
| | | 98,782.42 |
| Miscellaneous receipts. | | |
| Peter Bent Brigham Hospital for library service, | \$800.00 | |
| Interest on overdue term bill, | 50.00 | 850.00 |
| | | <u>\$494,115.95</u> |

MEDICAL SCHOOL (CONTINUED)

EXPENDITURE

| | | |
|---|-------------|-------------|
| From Fellowship Funds and Gifts, | | \$16,050.00 |
| From Scholarship and Aid Funds and Gifts, | | 7,750.00 |
| From Prize Fund. | | |
| Boylston Prize, | | 12.50 |
| From Sundry Funds for Special Purposes. | | |
| Edward Austin (Bacteriological Laboratory), . | \$516.78 | |
| J. Ingersoll Bowditch, Physiology, | 490.27 | |
| Herbert L. Burrell Fund, | 71.18 | |
| Dr. John C. Cutter Bequest (part), | 362.03 | |
| Thomas Dwight Memorial, | 645.00 | |
| George Fabyan Foundation for Comparative Pathology, | \$8,000.00 | |
| Less paid for salaries, | 6,225.00 | 1,775.00 |
| George Fabyan Foundation Special, | 680.44 | |
| Charles F. Farrington, | \$2,648.64 | |
| Less paid for salaries, | 1,500.00 | 1,148.64 |
| Henry Jackson Endowment: | | |
| Warren Anatomical Museum, | \$6,077.99 | |
| Less paid for salaries, | 3,000.00 | 3,077.99 |
| Walter Augustus Lecompte Professorship of Otolaryngology, | \$2,184.38 | |
| Less paid for salaries, | 1,500.00 | 684.38 |
| Harriet Newell Lowell, | 1,493.47 | |
| E. D. Morgan Gift, | 624.49 | |
| Repayment Anatomical Laboratory, | 1.85 | |
| " Bacteriological Laboratory, | 2.15 | |
| " Chemical Laboratory, | 866.64 | |
| " Department Medicine Laboratory, | 5.40 | |
| " Neuropathological Laboratory, | 4,022.85 | |
| " Comparative Pathological Laboratory, | 12.00 | |
| " Physiological Laboratory, | 609.63 | |
| " Department of Preventive Medicine Laboratory, | 13.10 | |
| " Syphilological Laboratory, | 3,061.20 | |
| Proctor, for the study of Chronic Diseases, | 2,433.32 | |
| Maurice H. Richardson Memorial, Surgery, | 163.51 | |
| Henry Francis Sears Fund for | | |
| Pathology, | \$2,073.11 | |
| Less paid for salaries, | 188.17 | 1,884.94 |
| Surgical Laboratory, | 1,811.08 | |
| William H. Thorndike Fund, | 812.04 | |
| Zoe D. Underhill Fund, | 515.00 | |
| Amounts carried forward, | \$36,779.88 | \$38,812.50 |

MEDICAL SCHOOL (CONTINUED)

EXPENDITURE

| | | |
|--|-------------|--------------|
| Amounts brought forward, | \$26,779.33 | \$23,812.50 |
| From Sundry Funds for Special Purposes (<i>continued</i>). | | |
| Edward Wigglesworth Professor- | | |
| ship of Dermatology, | \$2,980.00 | |
| Less paid for salaries, | 2,500.00 | 480.00 |
| Morrill Wyman Medical Research (part), . . | 1,254.13 | 28,513.46 |
| From Income of Funds and Gifts for Huntington | | |
| Memorial Cancer Hospital: | | |
| Memorial Cancer Hospital Endowment Fund, . . . | \$9,214.81 | |
| Francis Bartlett Free Bed Fund, | 257.50 | |
| T. Jefferson Coolidge for Research, | 103.00 | |
| Caroline Brewer Croft Fund, | 4,739.29 | |
| William Endicott Fund, | 1,287.50 | |
| Lawrence Carteret Fenno Fund, | 1,080.00 | |
| L. C. Fenno Memorial Free Bed Fund, | 257.50 | |
| Flattery Research Fund, | 750.00 | |
| Franklin H. Hooper Memorial Free Bed Fund, . . | 257.50 | |
| A. L. Hopkins Free Bed Fund, | 257.50 | |
| Maria D. Lockwood Memorial, | 2,612.54 | |
| Julia M. Moseley Fund, | 875.00 | |
| Clara E. Payson Memorial Free Bed Fund, . . | 257.50 | |
| Emily J. Proctor Fund, | 412.02 | |
| Research Laboratory Fund, | 55,500.00 | |
| Gifts for current expenses, | 14,155.00 | |
| Gift for salary, | 1,000.00 | 92,966.66 |
| From Sundry Gifts for Special Purposes, | | 11,857.54 |
| From fees received for use of microscopes, | | 2,002.25 |
| Appropriations. | | |
| Advertising and catalogues, | \$908.03 | |
| Anatomy, | 6,900.00 | |
| Animal committee, | 705.00 | |
| Books and service for the library, | 4,202.93 | |
| Physiology, | 4,402.00 | |
| Comparative Physiology, | 1,116.21 | |
| Biological Chemistry, | 4,478.24 | |
| Bacteriology, | 2,570.00 | |
| Pathology, | 2,248.92 | |
| Preventive Medicine and Hygiene, | 2,478.27 | |
| Pharmacology, | 3,820.00 | |
| Pediatrics, | 59.05 | |
| Surgery, | 2,257.97 | |
| Obstetrics, | 57.00 | |
| Diseases of the Nervous System, | 250.00 | |
| Medicine, | 2,960.00 | |
| Military Education, | 20.00 | 89,433.63 |
| Amount carried forward, | | \$198,586.03 |

MEDICAL SCHOOL (CONTINUED)

EXPENDITURE

| | | | |
|--|------------|--------------|--|
| Amount brought forward, | | \$198,586.03 | |
| Dean's Office. | | | |
| Salaries, | \$1,796.38 | | |
| Services and wages, | 1,853.86 | | |
| Office supplies and expenses, | 1,035.75 | 4,685.99 | |
| General. | | | |
| Salaries for instruction : | | | |
| From Austin Teaching Fellowships, \$2,500.00 | | | |
| Arthur T. Cabot Fellowship, | 1,100.00 | | |
| Charles F. Folsom Fellowship, | 575.00 | | |
| Henry P. Walcott Fellowship, | 1,000.00 | | |
| Charles Eliot Ware Fellowship, | 275.00 | | |
| Sundry Funds and Gifts, | 94,400.69 | | |
| General Income, | 45,075.39 | \$144,926.08 | |
| Services and wages, | 30.50 | | |
| Equipment and supplies, | 15.88 | | |
| Stationery, postage, telephone and telegraph, | 1,646.99 | | |
| Printing, | 222.81 | | |
| Boston Medical Library, | 150.00 | | |
| Diplomas, | 31.80 | | |
| Dues Association of Medical Colleges, | 25.00 | | |
| Blue books, | 45.25 | | |
| Flag pole, | 287.75 | | |
| Adjustment to restore gifts for unrestricted use, | 400.00 | | |
| Sundries, | 103.55 | | |
| Repairs and equipment, land and buildings, | 3,101.37 | | |
| Caretaking, land and buildings, | 15,475.88 | | |
| Heat and power, | 104,041.78 | 270,504.64 | |
| Retiring allowance, | | 1,000.00 | |
| Interest on advances, | | 1,242.19 | |
| University charge. | | | |
| President's Office, salaries and expenses, | \$703.82 | | |
| Treasurer's Office, care of investments, | 2,141.96 | | |
| Bursar's Office, collections and payments, | 2,259.46 | | |
| Inspector of Grounds and Buildings, salary and expenses, | 707.96 | | |
| Publication Office, salary and expenses, | 26.89 | | |
| Quinquennial Catalogue, | 188.13 | | |
| Annual Catalogue, | 324.65 | | |
| Purchasing Agent, | 58.19 | 6,411.06 | |
| Amount carried forward, | | \$482,429.91 | |

MEDICAL SCHOOL (CONTINUED)

EXPENDITURE

| | | | |
|--|--------------|-----------|---------------------|
| Amount brought forward, | \$482,429.91 | | |
| Balance constituted as follows : | | | |
| Balance of restricted income | | | |
| Added to Funds and Gifts, | \$37,569.59 | | |
| Less Deficiency of restricted income met by | | | |
| Charges against Funds and Gifts, \$21,556.57 | | | |
| Balance previously carried to | | | |
| General Suspense, | 62.25 | | |
| Deficiency of General Income carried to | | | |
| General Suspense, | 4,264.78 | 25,883.55 | 11,686.04 |
| | | | <u>\$494,115.95</u> |

SCHEDULE 18

GRADUATE SCHOOL OF MEDICINE

INCOME AND EXPENDITURE

For the year ended June 30, 1917

INCOME

Income of Funds and Gifts.

Frederick C. Shattuck Fund, interest, . . . \$5,267.83

Gifts for Department of Tropical Medicine:

| | | |
|---------------------------|------------|----------|
| Gifts, | \$8,700.00 | |
| Interest, | 18.09 | |
| Other receipts, | 14.75 | 8,727.84 |

Gift for special use, Department of Tropical

| | | |
|---------------------------|------------|----------|
| Medicine. Gift, | \$5,000.00 | |
| Interest, | 705.66 | 5,705.66 |

\$19,701.83

| | | |
|-----------------------------------|--|-----------|
| Tuition and other fees, | | 41,900.00 |
|-----------------------------------|--|-----------|

\$61,601.83

EXPENDITURE

From Gifts for Department of Tropical Medicine, \$12,602.09

Dean's Office.

| | | |
|---|------------|----------|
| Salaries, | \$2,333.33 | |
| Services and wages, | 1,425.40 | |
| Equipment and supplies, | 322.48 | |
| Stationery, postage, telephone and telegraph, . . . | 285.37 | |
| Printing, | 28.25 | |
| Sundries, | 8.42 | 4,408.25 |

General.

| | | |
|--|-------------|-----------|
| Salaries, | \$25,102.92 | |
| Services and wages, | 88.45 | |
| Equipment and supplies, | 192.60 | |
| Stationery and postage, | 91.01 | |
| Printing, | 1,432.45 | |
| Advertising, | 151.82 | |
| Laboratory fees paid to Medical School, | 428.68 | |
| Miscellaneous expenses of courses, | 591.22 | |
| Expenses of extension course at Spokane, | 400.00 | |
| Sundries, | 122.30 | 28,596.45 |

University charge.

| | | |
|-------------------------------|---------|--------|
| Bursar's Office, | \$67.25 | |
| Publication Office, | 80.68 | |
| Annual Catalogue, | 31.88 | 179.76 |

Amount carried forward, \$45,781.55

GRADUATE SCHOOL OF MEDICINE (CONTINUED)

EXPENDITURE

| | | |
|---|-------------|--------------------|
| Amount brought forward, | \$45,781.55 | |
| Balance constituted as follows: | | |
| Balance of restricted income added to Funds and Gifts, | \$10,978.49 | |
| Balance of General Income carried to General Suspense to repay former advances, | \$99.67 | |
| For future use, | 8,620.87 | 8,720.54 |
| | | <u>\$19,694.03</u> |
| <i>Less</i> | | |
| Deficiency of restricted income met by Charges against Funds and Gifts, | 3,874.25 | 15,819.78 |
| | | <u>\$61,601.33</u> |

SCHEDULE 19

DENTAL SCHOOL
INCOME AND EXPENDITURE

For the year ended June 30, 1917

INCOME

| | | | |
|--|-------------|-------------|--|
| Income of Funds and Gifts. | | | |
| Dental School Endowment (1880), | \$486.05 | | |
| Dental School Endowment (1911), | 992.76 | | |
| Dental School Endowment of the Class of 1886, | 2.57 | | |
| “ “ “ “ “ “ 1888, | 5.15 | | |
| “ “ “ “ “ “ 1907, | .52 | | |
| “ “ “ “ “ “ 1909, | 2.57 | | |
| Harvard Dental Alumni Endowment: | | | |
| Interest, | \$326.77 | | |
| Gifts to be added to income, | 390.00 | 656.77 | |
| John D. Bryant, | 581.74 | | |
| Helen Collamore, | 520.15 | | |
| Katherine C. Pierce Endowment, | 541.37 | | |
| Proctor Bequest, | 25.75 | | |
| Mary F. Russell Bequest, | 257.50 | | |
| Joseph Warren Smith, Jr., | 581.74 | | |
| Henry C. Warren Endowment, | 1,184.50 | \$5,789.14 | |
| Gifts for immediate use. | | | |
| Gift from Trustees, estate of Harriet N. Lowell, Interest, | | 113.37 | |
| Receipts from students. | | | |
| Tuition fees, regular courses, | \$40,310.00 | | |
| Less transferred to Medical School, | 14,000.00 | \$26,310.00 | |
| Chemistry, breakage and supplies, | 2,050.13 | | |
| Examination fees, | 72.00 | | |
| Mechanical and operative dentistry, breakage and supplies, | 770.52 | 29,302.64 | |
| Amount carried forward, | | \$35,105.15 | |

DENTAL SCHOOL (CONTINUED)

INCOME

| | | |
|--|------------|--------------------|
| Amount brought forward, | | \$35,105.15 |
| Fees from Infirmary, | | 18,942.18 |
| Sale of gold, | \$2,720.17 | |
| " instruments, | 300.00 | |
| " radiographs, | 1,798.00 | |
| " books, | 85.05 | |
| Sundry receipts, | 405.27 | 5,308.49 |
| | | <hr/> |
| | | \$59,855.77 |
| Balance constituted as follows : | | |
| Deficiency of restricted income met by charges against Funds and Gifts, | \$1,361.62 | |
| Deficiency of general income carried to General Suspense, | 7,085.64 | |
| | <hr/> | \$8,447.26 |
| Less Balance of restricted income carried to Funds and Gifts, | 290.87 | 8,156.39 |
| | | <hr/> |
| | | <u>\$67,512.16</u> |

EXPENDITURE

From Funds and Gifts.

Harriet Newell Lowell, \$1,474.99

Dean's Office.

Salaries, 1,250.00

General.

| | | |
|---|-------------|-------------|
| Salaries for instruction, | \$15,675.00 | |
| Services and wages, | 8,494.14 | |
| Equipment and supplies, | 20,468.19 | |
| Stationery, postage, telephone and telegraph, . . . | 685.22 | |
| Printing, | 825.87 | |
| Advertising, | 789.10 | |
| Books, | 22.75 | |
| Laundry, | 451.37 | |
| Diplomas, | 25.55 | |
| Rent of piano, | 45.00 | |
| Boston Medical Library, | 50.00 | |
| Dues to Institute of Dental Teachers, | 20.00 | |
| Collation, | 37.90 | |
| Binding, | 58.05 | |
| Freight and express, | 82.87 | |
| Refunds to patients, | 200.73 | |
| Sundries, | 202.07 | 48,183.31 |
| | <hr/> | |
| Interest on advances, general school account, | \$1,804.61 | |
| Interest on advances, building account, | 5,201.01 | 7,005.62 |
| | <hr/> | |
| Repairs and equipment, land and buildings, | \$763.90 | |
| Caretaking, land and buildings, | 7,450.61 | 8,214.51 |
| | <hr/> | |
| Amount carried forward, | | \$66,078.48 |

DENTAL SCHOOL (CONTINUED)

EXPENDITURE

| | | |
|--|----------|--------------------|
| Amount brought forward, | | \$66,078.43 |
| University charge. | | |
| President's Office, salaries and expenses, | \$471.83 | |
| Treasurer's Office, care of investments, | 46.80 | |
| Bursar's Office, collections and payments, | 709.70 | |
| Inspector of Grounds and Buildings, salary and expenses, | 50.65 | |
| Quinquennial Catalogue, | 29.16 | |
| Annual Catalogue, | 92.83 | |
| Purchasing Agent, | 6.37 | |
| Publication Office, | 26.89 | 1,433.73 |
| | | <u>\$67,512.16</u> |

SCHEDULE 20

BUSSEY INSTITUTION

INCOME AND EXPENDITURE

For the year ended June 30, 1917

INCOME

Income of Funds and Gifts.

| | | |
|---|-------------|-------------|
| Bussey Trust (part), | \$12,285.25 | |
| Bussey Endowment, | 5,526.31 | |
| Gordon McKay Endowment (part), | 13,395.89 | |
| Anna C. Ames Memorial Scholarship (Gift), | 425.00 | |
| George H. Emerson Scholarship (part), | 400.00 | |
| Priscilla Clark Hodges Scholarship, | 228.09 | |
| Gift for Forestry Department, interest, | 20.75 | |
| Gifts raised by Visiting Committee: | | |
| Gifts, | \$500.00 | |
| Interest, | 25.52 | 525.52 |
| Gift for salary, | 600.00 | |
| Forestry operations at Petersham, | 2,842.33 | \$36,198.64 |
| Tuition fees, | \$2,195.00 | |
| Graduation fees, | 40.00 | |
| Rent of Autitoxin stable, | 1,008.32 | |
| Rent of barn, | 50.00 | |
| Rents of dormitory rooms, | 726.60 | |
| Rent of house, | 450.00 | |
| Laboratory fees, | 80.00 | 4,549.92 |
| Amount carried forward, | | \$40,748.56 |

BUSSEY INSTITUTION (CONTINUED)

INCOME

| | | |
|--|-------------------|--------------------|
| Amount brought forward, | | \$40,748.56 |
| Balance constituted as follows: | | |
| Deficiency of restricted income met by charges | | |
| against Funds and Gifts, | \$32.98 | |
| General Suspense, | 2,672.23 | |
| | <u>\$2,705.16</u> | |
| Less Balance of restricted income added to | | |
| Funds and Gifts, | 448.84 | 2,256.32 |
| | | <u>\$43,004.88</u> |

EXPENDITURE

| | | |
|--|--------------------|--------------------|
| From Scholarship Funds. | | |
| George H. Emerson, | \$400.00 | |
| Priscilla Clark Hodges, | 225.00 | \$625.00 |
| From Funds and Gifts for special purposes. | | |
| Forestry operations at Petersham, | \$5,514.56 | |
| Gifts raised by Visiting Committee, | 558.45 | 6,073.01 |
| Salaries, | <u>\$18,450.00</u> | |
| Services and wages, | 6,205.22 | |
| Equipment and supplies, | 2,300.11 | |
| Stationery, postage, telephone and telegraph, | 283.48 | |
| Printing, | 112.96 | |
| Books, | 212.56 | |
| Labor and teaming, | 872.13 | |
| Freight and express charges, | 65.20 | |
| Laundry, | 43.68 | |
| Expenses tobacco investigation, | 150.00 | |
| Binding books, | 89.50 | |
| Advertising, | 10.00 | |
| General expenses, Department of Forestry, | 372.62 | |
| Roadmaking at Petersham, | 700.00 | |
| Sundries, | 5.30 | |
| Repairs, land and buildings, | 3,135.50 | |
| Caretaking, land and buildings, | <u>2,628.75</u> | 35,632.01 |
| University charge. | | |
| President's Office, salaries and expenses, | \$31.47 | |
| Treasurer's Office, care of investments, | 347.22 | |
| Bursar's Office, collections and payments, | 211.20 | |
| Inspector of Grounds and Buildings, salary and expenses, | 3.99 | |
| Annual Catalogue, | 47.74 | |
| Purchasing Agent, | <u>5.24</u> | 646.86 |
| Stillman Infirmary, Schedule 35, | | 28.00 |
| | | <u>\$43,004.88</u> |

ARNOLD ARBORETUM

INCOME AND EXPENDITURE

For the year ended June 30, 1917

INCOME

Income of Funds and Gifts.

| | | |
|--|------------|-------------|
| Arnold Arboretum, | \$6,470.97 | |
| Arnold Arboretum Endowment (1917), | 2,625.63 | |
| James Arnold, | 8,488.64 | |
| Arboretum Construction Gifts, interest, | 3,891.44 | |
| Robert Charles Billings, | 687.75 | |
| William L. Bradley Fund: | | |
| Interest, | \$1,080.00 | |
| Sales, | 280.00 | 1,310.00 |
| Bussey, for the Arnold Arboretum, | 118.86 | |
| Helen Collamore Bequest, | 180.04 | |
| Massachusetts Society for Promoting Agriculture, | 374.80 | |
| Francis Skinner, | 1,080.00 | |
| Francis Skinner, Jr. Bequest, | 515.00 | |
| Bayard and Ruth S. Thayer, | 1,080.00 | |
| Edward Whitney, | 62.67 | \$26,735.30 |

For botanical exploration in China.

| | | |
|--|------------|--------------------|
| Sale of photographs, material and publications, | \$1,282.72 | |
| Sears Gift for Library. Gift, | \$1,000.00 | |
| Interest, | 23.33 | 1,023.33 |
| Gifts for expedition to Korea, | 4,275.25 | |
| Gifts for present use, | 24,458.20 | 31,039.50 |
| Subscriptions to Bulletins of Popular Information, | \$511.70 | |
| Sale of surplus material, | 5,195.50 | |
| Sale of Japanese photographs, plants and publications, | 1,470.70 | |
| Sale of sundry publications, | 70.00 | |
| Sale of duplicate books, | 139.80 | |
| Share of collector's expenses repaid, | 1,149.55 | |
| Repayment of cost getting collection from China, | 364.00 | 8,901.25 |
| | | <u>\$66,676.05</u> |

EXPENDITURE

| | | |
|---|-------------|------------|
| From Sears Gift for Library, | \$25.30 | |
| From Chinese exploration gifts, | 104.24 | |
| From gift for expedition to Korea, | 1,467.36 | \$1,596.90 |
| General. | | |
| Salaries, | \$8,200.00 | |
| Services and wages, | 8,811.84 | |
| Equipment and supplies, | 3,778.93 | |
| Stationery, postage, telephone and telegraph, | 463.85 | |
| Labor and teaming, | 14,769.65 | |
| Amounts carried forward, | \$36,024.27 | \$1,596.90 |

ARNOLD ARBORETUM (CONTINUED)

EXPENDITURE

Amounts brought forward, \$36,024.27 \$1,596.90

General (*continued*).

| | | |
|--|----------|-----------|
| General printing, | 118.00 | |
| Rent and taxes on building, | 498.88 | |
| Bradley Bibliography of Trees, | 5,850.64 | |
| Printing Library Catalogue, | 3,000.00 | |
| Printing Plantae Wilsonianae, | 8,118.42 | |
| Printing Conifers and Taxads of Japan, | 1,664.46 | |
| Publicity work, | 1,000.00 | |
| Photographs, Japanese Exploration, | 602.26 | |
| Expenses of expeditions for collecting, | 2,385.78 | |
| Freight, express, etc., | 221.12 | |
| Printing bulletins and expenses of mailing same, | 512.53 | |
| New boiler, | 577.00 | |
| Sundries, | 13.59 | |
| Water, heat, light, power and protection, | 949.64 | |
| Repairs, buildings, | 145.66 | 56,172.25 |

University charge.

| | | |
|--|----------|--------|
| Treasurer's Office, care of investments, | \$248.83 | |
| Bursar's Office, collections and payments, | 161.05 | |
| Purchasing Agent, | 2.27 | 407.15 |

Balance constituted as follows:

\$58,176.80

| | | |
|--|------------|--------------------|
| Balance of restricted income added to Funds and Gifts, | \$5,471.50 | |
| Balance of general income added to Arboretum Construction Gifts, | 3,028.25 | 8,499.75 |
| | | <u>\$66,676.05</u> |

SCHEDULE 22

BOTANIC GARDEN

INCOME AND EXPENDITURE

For the year ended June 30, 1917

INCOME

Income of Funds.

| | | |
|---|------------|------------|
| Botanic Department ($\frac{1}{2}$ income), | \$1,280.42 | |
| Lowell, for a Botanic Garden, | 3,557.36 | |
| John L. Russell ($\frac{1}{4}$ income), | 25.75 | \$4,863.53 |

| | | |
|---|----------|--------------------|
| Gifts for immediate use, | 6,500.00 | |
| Material supplied courses in Botany, Radcliffe College, | 150.00 | |
| | | <u>\$11,518.53</u> |

BOTANIC GARDEN (CONTINUED)

EXPENDITURE

| | | |
|--|------------|---------------------------|
| Labor, | \$4,772.70 | |
| Equipment and supplies, | 609.70 | |
| Stationery, postage, telephone and telegraph, | 43.66 | |
| Water, heat, light, power and protection, | 1,178.96 | |
| Repairs and equipment, land and buildings, | 502.48 | |
| Express and cartage, | 132.65 | |
| Sundries, | 11.05 | \$7,251.20 |
| University charge. | | |
| Treasurer's Office, care of investments, | \$52.47 | |
| Bursar's Office, collections and payments, | 22.71 | 75.18 |
| | | <u>\$7,326.38</u> |
| Balance of general income carried to General Suspense, | | 4,187.15 |
| | | <u><u>\$11,513.53</u></u> |

SCHEDULE 23

BOTANICAL MUSEUM

INCOME AND EXPENDITURE

For the year ended June 30, 1917

INCOME

| | | |
|---|------------|--------------------------|
| Botanical Museum balance, interest, | \$32.89 | |
| Gifts for present use. | | |
| Gift for Botanical Museum: | | |
| Gift, | \$2,850.00 | |
| Interest, | 13.15 | 2,863.15 |
| Gift for Cases, interest, | 84.24 | \$2,930.28 |
| | | <u><u>\$2,930.28</u></u> |

EXPENDITURE

| | | |
|--|------------|--------------------------|
| Services and wages, | \$1,500.00 | |
| Equipment and supplies, | 414.89 | |
| Stationery, postage, telephone, etc., | 27.25 | |
| Printing, | 167.89 | |
| Express charges, | 3.00 | |
| University charge. | | |
| Bursar's Office, collections and payments, | 14.16 | \$2,126.69 |
| | | <u>\$2,126.69</u> |
| Balance constituted as follows: | | |
| Balance of restricted income carried to | | |
| Funds and Gifts, | \$34.24 | |
| Balance of general income carried to General Suspense, | 769.35 | 803.59 |
| | | <u><u>\$2,930.28</u></u> |

GRAY HERBARIUM
INCOME AND EXPENDITURE

For the year ended June 30, 1917

INCOME

Income of Funds.

| | | |
|--|-----------|--------------------|
| Gray Herbarium balance, interest, | \$581.71 | |
| Robert Charles Billings, | 772.50 | |
| Helen Collamore Bequest, | 78.02 | |
| Asa Gray Memorial, | 1,701.77 | |
| Asa Gray Professorship of Systematic Botany, . | 1,104.73 | |
| Herbarium, | 1,063.78 | |
| Rose Hollingsworth, | 25.75 | |
| Sarah E. Potter Endowment, | 10,876.74 | |
| John L. Russell ($\frac{1}{2}$ income), | 77.25 | \$15,732.25 |
| Asa Gray's copyrights, | | 575.00 |
| Gifts for immediate use, | | 1,625.00 |
| Sale of card index, | | 974.71 |
| “ other publications, | | 100.72 |
| “ cases, | | 9.00 |
| “ duplicate books and pamphlets, | | 11.80 |
| | | <u>\$19,027.98</u> |

EXPENDITURE

From Asa Gray Professorship of Systematic Botany Fund.

| | | |
|--|------------|--------------------|
| Salary of Asa Gray Professor (part), | | \$1,104.73 |
| Salaries, | \$4,728.60 | |
| Services and wages, | 5,625.76 | |
| Equipment and supplies, | 1,489.62 | |
| Stationery, postage, telephone and telegraph, | 279.28 | |
| Printing, | 2,278.78 | |
| Books, | 323.76 | |
| Binding, | 271.00 | |
| Freight and express, | 190.66 | |
| Expenses of collectors, | 284.40 | |
| Specimens, | 365.00 | |
| Sundries, | 7.65 | |
| Repairs and equipment, land and buildings, | 158.54 | |
| Caretaking, land and buildings, | 1,332.10 | 17,885.15 |
| University charge. | | |
| Treasurer's Office, care of investments, | \$165.12 | |
| Bursar's Office, collections and payments, | 140.70 | |
| Inspector of Grounds and Buildings, salary and expenses, | 22.62 | |
| Engineer, | 21.84 | |
| Purchasing Agent, | 5.10 | 355.88 |
| | | <u>\$18,795.26</u> |
| Balance of general income carried to General Suspense, | | 232.72 |
| | | <u>\$19,027.98</u> |

OBSERVATORY **INCOME AND EXPENDITURE**

For the year ended June 30, 1917

INCOME

Income of Funds and Gifts.

| | | | |
|--|------------------|--------------------|--|
| Advancement of Astronomical Science (1901) : | | | |
| Interest, | \$394.68 | | |
| Repayment in part of advance to | | | |
| Henry Draper Memorial Fund, | 1,815.18 | \$2,109.86 | |
| Advancement of Astronomical Science (1902), . . | 1,991.50 | | |
| Amory Astronomical Fund, | 2,682.37 | | |
| Thomas G. Appleton, | 257.50 | | |
| J. Ingersoll Bowditch, | 128.75 | | |
| Uriah A. Boyden, | 9,527.50 | | |
| Henry Draper Memorial: | | | |
| Interest, | \$815.33 | | |
| Gifts for income, | 9,000.00 | 9,815.33 | |
| J. Rayner Edmands, | 52.32 | | |
| Charlotte Harris, | 103.00 | | |
| Haven, | 2,317.50 | | |
| James Hayward, | 1,081.50 | | |
| Observatory Endowment, | 2,575.00 | | |
| Paine Professorship, | 2,575.00 | | |
| Robert Treat Paine, | 14,107.50 | | |
| Edward B. Phillips, | 5,680.14 | | |
| E. C. Pickering Fellowship, | 385.31 | | |
| Josiah Quincy, | 609.09 | | |
| James Savage ($\frac{1}{2}$ net income), | 465.75 | | |
| David Sears (1845), | 1,841.93 | | |
| David Sears (1916), | 1,287.50 | | |
| Augustus Story, | 689.07 | \$59,283.32 | |
| George R. Agassiz Gift, Catalogue. | | | |
| Gift, \$1,000.00 | | | |
| Interest, 12.52 | \$1,012.52 | | |
| Maria Mitchell Fellowship (gift), | 250.00 | | |
| Gifts for current use, | 1,500.00 | 2,762.52 | |
| Use of house by College officer, | \$600.00 | | |
| Sale of Apparatus, | 174.16 | | |
| " photographs, | 66.50 | | |
| " sundry publications, | 96.55 | 937.21 | |
| | | \$62,983.05 | |

OBSERVATORY (CONTINUED)

EXPENDITURE

| | | | |
|---|--------------------|-------------|-----------|
| From Advancement of Astronomical Science Fund (1901). | | | |
| Overdraft of Boyden Fund, | \$1,208.08 | | |
| From George R. Agassiz Gift, | 999.96 | | |
| From Uriah A. Boyden Fund. | | | |
| Services and wages, | \$3,525.51 | | |
| Equipment and supplies, | 1,021.52 | | |
| Expedition to Jamaica, | 3,885.10 | | |
| Expedition to Peru, | 2,115.00 | | |
| Books, | 60.12 | | |
| Freight, express, etc., | 619.16 | | |
| Sundries, | 9.12 | | |
| | <u>\$10,785.53</u> | | |
| Less overdraft transferred to Advancement of Astronomical Science Fund (1901), | 1,208.08 | 9,527.50 | |
| From Draper Memorial Fund. | | | |
| Administrative and Executive expenses, | \$1,500.00 | | |
| Services and wages, | 4,350.15 | | |
| Rent and care of space in building, | 1,650.00 | | |
| Repayment in part of advance from Advancement of Astronomical Science Fund (1901), | 1,815.18 | 9,815.33 | |
| From Maria Mitchell Fellowship Fund, | 495.14 | | |
| From Josiah Quincy Fund, | 1,185.55 | | |
| Salaries, | \$15,000.00 | | |
| Services and wages, | 8,432.17 | | |
| Equipment and supplies, | 3,929.52 | | |
| Stationery, postage, telephone and telegraph, | 497.71 | | |
| Printing, | 692.61 | | |
| Binding, | 457.91 | | |
| Books, | 187.96 | | |
| Printing Annals, | 2,736.80 | | |
| Use of house, | 90.00 | | |
| Freight and teaming, | 196.51 | | |
| Labor on grounds, | 1,542.79 | | |
| Laundry work, | 22.09 | | |
| American Association of Variable Star Observers, | 100.00 | | |
| Repairs and equipment, land and buildings, | 271.41 | | |
| Caretaking, land and buildings, | 1,542.69 | | |
| | <u>\$35,700.17</u> | | |
| <i>Less amounts transferred</i> | | | |
| To Draper Memorial Fund, | \$3,150.00 | | |
| To Josiah Quincy Fund, | 1,185.55 | 4,335.55 | 31,864.62 |
| University charge. | | | |
| Treasurer's Office, care of investments, | \$484.57 | | |
| Bursar's Office, collections and payments, | 184.06 | | |
| Inspector's Office, salary and expenses, | 61.46 | 730.09 | |
| Amount carried forward, | | \$54,826.22 | |

OBSERVATORY (CONTINUED)

EXPENDITURE

| | | |
|--|-------------------|---------------------------|
| Amount brought forward, | \$54,826.22 | |
| Balance constituted as follows: | | |
| Balance of restricted income added to | | |
| Funds and Gifts, | \$5,566.39 | |
| Balance of general income added to Advancement | | |
| of Astronomical Science (1901) Fund, | 8,412.04 | |
| | <u>\$8,978.48</u> | |
| Less Deficiency of restricted income met by | | |
| Charges against Funds and Gifts, | 821.60 | 8,156.83 |
| | | <u><u>\$62,983.05</u></u> |

SCHEDULE 26

BLUE HILL METEOROLOGICAL OBSERVATORY

INCOME AND EXPENDITURE

For the year ended June 30, 1917

INCOME

| | | |
|--|------------|--------------------------|
| Income of A. Lawrence Rotch Bequest, | \$2,632.32 | |
| " " Waldo E. Forbes Fund, | 151.51 | |
| Gifts for present use, | 5,600.00 | |
| Grant from Harvard College, | 1,000.00 | 9,383.83 |
| | | <u><u>\$9,383.83</u></u> |

EXPENDITURE

| | | |
|---|------------|--------------------------|
| Salary of Director, | \$3,500.00 | |
| Services and wages, | 1,959.35 | |
| Equipment and supplies, | 770.15 | |
| Stationery, postage, telephone and telegraph, | 114.80 | |
| Printing, | 34.00 | |
| Books and binding, | 177.96 | |
| Freight and express, | 54.26 | |
| Sundries, | 7.55 | |
| Repairs, building, | 274.60 | |
| Caretaking, building, | 729.89 | \$7,622.56 |
| University charge. | | |
| Treasurer's Office, care of investments, | \$27.78 | |
| Bursar's Office, receipts and payments, | 5.90 | 33.68 |
| | | <u>\$7,656.24</u> |
| Balance of general income added to A. Lawrence Rotch | | |
| Bequest, | | 1,727.59 |
| | | <u><u>\$9,383.83</u></u> |

MUSEUM OF COMPARATIVE ZOOLOGY

INCOME AND EXPENDITURE

For the year ended June 30, 1917

INCOME

Income of Funds.

| | | |
|--|------------|--------------------|
| Museum of Comparative Zoölogy balance, interest, | \$852.07 | |
| Agassiz Memorial, | 15,848.55 | |
| Alexander Agassiz Bequest, General Purposes. | | |
| Interest, | \$2,915.52 | |
| Allowance from College to increase income to rate of income of funds in general investments, | 2,208.78 | 5,124.25 |
| Alexander Agassiz Bequest for Publications, . | 4,382.80 | |
| George R. Agassiz, | 2,575.00 | |
| George R. Agassiz Special Fund, | 2,575.00 | |
| Louis Cabot, | 107.94 | |
| Virginia Barret Gibbs Scholarship, | 346.23 | |
| Gray Fund for Zoölogical Museum, | 2,575.00 | |
| Sturgis Hooper, | 5,538.00 | |
| Humboldt, | 431.57 | |
| Willard Peele Hunnewell, | 288.68 | |
| Permanent Fund for Museum of Zoölogy, | 6,049.67 | |
| Henry L. Pierce, Residuary (part), | 4,788.05 | |
| Teachers' and Pupils', | 391.09 | |
| Maria Whitney, | 329.81 | |
| Maria Whitney and James Lyman Whitney, | 15.96 | \$51,664.65 |
| Grant from Shaler Memorial Fund, | \$600.00 | |
| Use of lecture rooms by Radcliffe College, | 700.00 | |
| Sale of publications, | 526.48 | |
| Sale of cases, | 20.00 | |
| Lost books, | 8.00 | 1,849.48 |
| | | <u>\$53,514.13</u> |

EXPENDITURE

From Sturgis Hooper Fund.

| | | |
|---|----------|------------|
| Salary of Sturgis Hooper Professor, \$5,000.00 | | |
| Expenses, | 654.23 | \$5,654.23 |
| Alexander Agassiz Bequest for Publications, . . . | 2,548.41 | |
| Virginia Barret Gibbs Scholarship, | 275.00 | |
| Humboldt Fund, | 337.13 | |
| Willard Peele Hunnewell Fund, | 288.68 | |
| Maria Whitney Fund, | 290.79 | \$9,394.22 |
| Amount carried forward, | | \$9,394.22 |

MUSEUM OF COMPARATIVE ZOOLOGY (CONTINUED)

EXPENDITURE

| | | |
|---|-------------------|---------------------------|
| Amount brought forward, | | \$9,394.22 |
| Salaries, | \$15,091.68 | |
| Services and wages, | 9,027.90 | |
| Equipment and supplies, | 2,026.42 | |
| Stationery, postage, telephone and telegraph, | 73.69 | |
| Printing, | 5,862.98 | |
| Books, | 121.40 | |
| Binding, | 181.08 | |
| Freight, cartage, etc. | 374.62 | |
| Laundry work, | 20.25 | |
| Sundries, | 18.00 | |
| Repairs, building, | 325.30 | |
| Water, heat, light, power and protection, | 6,930.58 | 39,558.80 |
| University charge. | | |
| Treasurer's Office, care of investments, | \$544.75 | |
| Bursar's Office, collections and payments, | 141.29 | |
| Purchasing agent, salary and expenses, | .14 | 686.18 |
| | | <u>\$49,634.02</u> |
| Less the following items transferred : | | |
| To the College, Schedule 8 : | | |
| Heating and service, | \$3,774.00 | |
| Publishing contributions from the Laboratories | | |
| of Geography and Zoölogy, | 300.00 | |
| Services of librarian, | 250.00 | |
| | <u>\$4,324.00</u> | |
| To the University, Schedule 7 : | | |
| University charge, | 686.18 | 5,010.18 |
| | | <u>\$44,634.02</u> |
| Balance constituted as follows : | | |
| Balance of restricted income added to | | |
| Funds and Gifts, | \$2,162.98 | |
| Surplus of general income carried to | | |
| General Suspense, | 6,843.86 | |
| | <u>\$9,006.84</u> | |
| Less Deficiency of restricted income met by charges | | |
| against Funds and Gifts, | 116.23 | 8,890.11 |
| | | <u><u>\$53,514.13</u></u> |

SCHEDULE 28

PEABODY MUSEUM OF AMERICAN ARCHAEOLOGY AND ETHNOLOGY

INCOME AND EXPENDITURE

For the year ended June 30, 1917

INCOME

Income of Funds.

| | | |
|---|------------|--------------------|
| Peabody Museum balance, interest, | \$161.91 | |
| Henry W. Haynes Bequest, | 51.50 | |
| Hemenway Fellowship, | 681.24 | |
| Mary Hemenway Fund for Archaeology : | | |
| Interest, | \$2,358.08 | |
| Other receipts, | .80 | 2,358.83 |
| Francis Cabot Lowell Memorial, | 51.50 | |
| Peabody Building, | 1,489.73 | |
| Peabody Collection, | 2,486.81 | |
| Peabody Professor, | 2,486.81 | |
| F. W. Putnam Fund, | 3.45 | |
| Eliza O. and Mary P. Ropes (part), | 1,181.73 | |
| Thaw Fellowship, | 1,205.86 | |
| Henry C. Warren Exploration, | 525.71 | |
| Susan Cornelia Warren, | 257.50 | |
| Robert C. Winthrop Scholarship, | 357.62 | |
| Huntington Frothingham Wolcott, | 1,082.78 | \$14,382.98 |
| Gifts for special use, | | 8,111.89 |
| Sale of publications, | \$79.99 | |
| Contributions for cases and fixtures, | 20.31 | 100.30 |
| | | <u>\$22,544.67</u> |

EXPENDITURE

| | | |
|--|------------|-------------|
| Mary Hemenway Fund, | \$1,800.00 | |
| Henry C. Warren Fund, explorations, | 591.89 | |
| Huntington Frothingham Wolcott Fund, speci- | | |
| mens, | 508.80 | |
| Gifts for special use, | 6,864.65 | |
| Fellowship Central American Archaeology, | 26.17 | |
| Hemenway Fellowship, | 575.00 | |
| Thaw Fellowship, | 1,190.42 | |
| Robert C. Winthrop Scholarship, | 325.00 | \$11,881.93 |
| Salaries, | \$5,267.84 | |
| Museum supplies and incidentals, | 421.15 | |
| Museum labels, | 125.05 | |
| Freight, express, customs and postage, | 297.63 | |
| Telephone, telegraph and messengers, | 73.42 | |
| Construction of cases, | 773.16 | |
| Amounts carried forward, | \$6,958.25 | \$11,881.93 |

PEABODY MUSEUM (CONTINUED)

EXPENDITURE

| | | |
|--|-------------------|---------------------------|
| Amounts brought forward, | \$6,958.25 | \$11,881.93 |
| Photo supplies and prints, | 46.25 | |
| Explorations, | 474.86 | |
| Publications, | 5.25 | |
| Library books bought, | 160.64 | |
| Library binding, | 98.52 | |
| Library incidentals, | 99.07 | |
| Repairs to new addition, | 238.55 | |
| Repairs and equipment, land and buildings, | 335.42 | |
| Caretaking, land and buildings, | 2,813.20 | 11,224.51 |
| University charge. | | |
| Treasurer's Office, care of investments, | \$151.23 | |
| Bursar's Office, collections and payments, | 156.33 | |
| Inspector of Grounds and Buildings, salary and expenses, | 107.90 | |
| Watchmen, | 357.35 | |
| Janitor, | 99.86 | |
| Purchasing Agent, | 5.10 | 877.27 |
| Less amounts transferred. | | \$23,983.71 |
| Repairs, land and buildings, | \$335.42 | |
| Caretaking, land and buildings, | 2,813.20 | |
| University charge, | 877.27 | 4,025.89 |
| The above amounts are transferred as follows: | | \$19,957.82 |
| 90% to University, Schedule 7, | \$3,628.30 | |
| 10% to College, Schedule 8, | 402.59 | |
| | <u>\$4,025.89</u> | |
| Balance constituted as follows: | | |
| Balance of restricted income added to Fund and Gifts, \$2,487.30 | | |
| Balance of general income carried to General | | |
| Suspense, | 191.90 | |
| | <u>\$2,679.20</u> | |
| Less Deficiency of restricted income met by charges against Funds and Gifts, | 92.35 | 2,586.85 |
| | | <u><u>\$22,544.67</u></u> |

SEMITIC MUSEUM
INCOME AND EXPENDITURE
For the year ended June 30, 1917

INCOME

| | | |
|---|------------|-------------------|
| Income from Teachers' Endowment (part), | \$2,000.00 | |
| Gifts for Semitic Collection, interest, | 16.29 | |
| Gifts for excavations in Palestine, interest, | 29.79 | |
| Gifts for general purposes. Interest, | \$107.80 | |
| Other receipts, | 224.90 | 332.70 |
| | | <u>\$3,378.78</u> |

Balance constituted as follows:

| | | |
|--|------------|-------------------|
| Deficiency of restricted income met by charges against Funds and Gifts, | \$1,484.22 | |
| Less Balance of restricted income added to Funds and Gifts, | 332.70 | 1,151.52 |
| | | <u>\$3,530.30</u> |

EXPENDITURE

| | | |
|--|----------|------------|
| From gifts for Semitic Collection, | \$300.00 | |
| " gifts for excavations in Palestine, | 1,005.40 | |
| " gift for publication of volume on Babylonian tablets, | 224.90 | \$1,530.30 |
| Curator, | | 2,000.00 |
| Repairs and equipment, land and building, | \$50.39 | |
| Caretaking, land and building, | 1,253.40 | 1,303.79 |

University charge.

| | | |
|---|---------|-------------------|
| Treasurer's Office, care of investments, | \$23.15 | |
| Bursar's Office, collections and payments, | 22.12 | |
| Inspector of Grounds and Buildings, salary and expenses, | 34.80 | |
| Watchmen, | 96.11 | |
| Engineer, | 22.78 | |
| Janitor, | 53.44 | 252.40 |
| | | <u>\$5,086.49</u> |

Less amounts transferred.

| | | |
|------------------------------|------------|-------------------|
| General expenses, | \$1,803.79 | |
| University charge, | 252.40 | 1,556.19 |
| | | <u>\$3,530.30</u> |

The above amounts are transferred as follows:

| | |
|--|-------------------|
| 70% to University, Schedule 7, | \$1,089.33 |
| 30% to Divinity School, Schedule 15, | 466.86 |
| | <u>\$1,556.19</u> |

GERMANIC MUSEUM
INCOME AND EXPENDITURE

For the year ended June 30, 1917

INCOME

Income of Funds and Gifts.

| | | |
|--|----------|-------------------|
| Germanic Museum balance, interest, | \$195.47 | |
| Emperor William, | 1,856.25 | |
| Germanic Museum, | 515.72 | |
| Germanic Museum Endowment, | 3,531.61 | |
| Hugo Reisinger Bequest, | 1,302.18 | |
| Gift for work of art, interest, | 66.15 | \$6,967.33 |
| | | <u>\$6,967.33</u> |

EXPENDITURE

From gifts for works of art, \$300.00

General.

| | | |
|---|----------|----------|
| Equipment and supplies, | \$14.74 | |
| Printing, | 17.75 | |
| Stationery and postage, | 10.60 | |
| Travelling expenses, | 30.00 | |
| Sundries, | 11.54 | |
| Repairs and equipment, land and building, | 38.38 | |
| Caretaking, land and building, | 1,898.32 | 2,016.33 |

University charge.

| | | |
|--|---------|-------------------|
| Treasurer's Office, care of investments, | \$98.76 | |
| Bursar's Office, collections and payments, | 15.34 | |
| Inspector of Grounds and Buildings, salary and expenses, | 60.04 | |
| Watchmen, | 46.33 | |
| Engineer, | 10.98 | 281.45 |
| | | <u>\$2,547.78</u> |

Less University charge transferred to University, Schedule 7, . . . 281.45

\$2,316.33

Balance constituted as follows :

| | |
|---|-------------------|
| Balance of restricted income added to Funds and Gifts, \$2,940.42 | |
| Balance of general income carried to General Suspense, 1,944.43 | |
| | <u>\$4,884.85</u> |

| | | |
|--|--------|-------------------|
| Less Deficiency of restricted income met by charges against Funds and Gifts, | 288.85 | 4,651.00 |
| | | <u>\$6,967.33</u> |

WILLIAM HAYES FOGG ART MUSEUM

INCOME AND EXPENDITURE

For the year ended June 30, 1917

INCOME

Income of Funds and Gifts :

William Hayes Fogg.

| | | |
|-------------------------------------|------------|------------|
| Interest, | \$2,593.02 | |
| Gift to be added to income, | 4,825.00 | |
| Amount received for income, . . . | 600.00 | \$7,518.02 |

Gray Fund for Engravings, , 818.28

William M. Prichard, 799.59

John Witt Randall, 1,547.73

Mary R. Searle, 96.67

Gift Mrs. Samuel Sachs for work of art.

| | | |
|---------------------|------------|----------|
| Gift, | \$2,500.00 | |
| Interest, | 25.14 | 2,525.14 |

Gifts from the Society of Friends of the Fogg Art Museum. Gifts, \$7,110.00

Interest, 18.83 7,128.83

Gift for purchase of Sargent water color :

| | | |
|---------------------|------------|----------|
| Gift, | \$1,000.00 | |
| Interest, | 16.55 | 1,016.55 |

Gift for cases to hold Bliss bequest, 568.21 \$22,019.02

Sale of photographs, catalogue, etc., 74.05

Sale of case, 55.00

\$22,148.07

Balance constituted as follows :

Deficiency of restricted income met by charges against

Funds and Gifts, \$3,825.78

Less Balance of restricted income added to

Funds and Gifts, 636.55 3,189.23

\$25,337.30

EXPENDITURE

From the following Funds and Gifts :

Gray Fund for Engravings.

| | | |
|---------------------|----------|----------|
| Curator, | \$250.00 | |
| Services, | 159.14 | \$409.14 |

William M. Prichard, collections, 1,250.00

John Witt Randall.

| | | |
|---------------------|----------|----------|
| Curator, | \$250.00 | |
| Expenses, | 1,180.73 | 1,430.73 |

Mary R. Searle, books, 113.50

Gifts from the Society of Friends of the Fogg Art Museum, 7,874.53

Amount carried forward, \$11,077.90

WILLIAM HAYES FOGG ART MUSEUM (CONTINUED)

EXPENDITURE

| | | |
|--|-------------------|--------------------|
| Amount brought forward, | \$11,077.90 | |
| From the following Funds (<i>continued</i>). | | |
| Gifts for special watchmen, | 210.00 | |
| Gift of Mrs. Samuel Sachs for work of art, . . | 4,927.98 | |
| Gift for cases to hold Bliss bequest, | 568.21 | |
| Gift for purchase Sargent water color, | 1,000.00 | 17,784.09 |
| General. | | |
| Director, | \$500.00 | |
| Services and wages, | 1,912.47 | |
| Equipment and supplies, | 1,706.89 | |
| Stationery, postage, telephone and telegraph, . . . | 199.30 | |
| Insurance, | 1,263.29 | |
| Interest on advances, | 6.47 | |
| Printing, | 250.18 | |
| Freight, express, etc., | 527.56 | |
| Expenses of special exhibition in 1915-16, | 129.44 | |
| Sundries, | 64.72 | |
| Repairs and equipment, building, | 992.89 | |
| Caretaking, building, | 4,072.07 | 11,625.28 |
| University charge. | | |
| Treasurer's Office, care of investments, | \$61.73 | |
| Bursar's Office, collections and payments, | 107.96 | |
| Inspector of Grounds and Buildings, salary and expenses, | 151.20 | |
| Engineer, | 83.72 | |
| Watchmen, | 142.27 | |
| Purchasing Agent, | 11.33 | 508.21 |
| | | <u>\$29,917.58</u> |
| Less amounts transferred. | | |
| Caretaking, building, | \$4,072.07 | |
| University charge, | 508.21 | 4,580.28 |
| | | <u>\$25,337.30</u> |
| The above amounts are transferred as follows : | | |
| 10% to University, Schedule 7, | \$458.08 | |
| 90% to College, Schedule 8, | 4,122.25 | |
| | <u>\$4,580.28</u> | |

APPLETON CHAPEL
INCOME AND EXPENDITURE

For the year ended June 30, 1917

INCOME

Income of Funds.

| | | |
|---|----------|--------------------|
| Fund for Religious Services, | \$53.25 | |
| Increase Sumner Wheeler, | 2,575.00 | |
| Edward Wigglesworth Memorial, | 7,725.00 | \$10,353.25 |
| Gift for expenses of choir, | | 75.00 |
| Use of organ, | | 199.58 |
| | | <u>\$10,627.83</u> |

EXPENDITURE

General.

| | | |
|--|------------|--------------------|
| Preaching and morning services, | \$4,070.00 | |
| Administrator, | 400.00 | |
| Organist and Choir-master, | 1,500.00 | |
| Choir, | 2,171.85 | |
| Equipment and supplies, | 329.68 | |
| Printing, | 104.43 | |
| Music, | 20.27 | |
| Board of preachers, | 60.70 | |
| Work on organ, | 157.29 | |
| Decorations at Christmas and Easter services, . . | 50.00 | |
| Sundries, | 12.98 | \$8,877.15 |
| Repairs and equipment, land and buildings, | \$15.65 | |
| Caretaking, land and buildings, | 1,170.75 | |
| University charge. | | |
| Treasurer's Office, care of investments, | 109.57 | |
| Bursar's Office, collections and payments, | 58.70 | |
| Inspector of Grounds and Buildings, salary and expenses, | 44.66 | |
| Watchmen, | 73.66 | |
| Janitor, | 40.96 | |
| Engineer, | 17.46 | 1,531.41 |
| | | <u>\$10,408.56</u> |
| Balance of restricted funds added to Funds and Gifts, | | 219.27 |
| | | <u>\$10,627.83</u> |

PHILLIPS BROOKS HOUSE

INCOME AND EXPENDITURE

For the year ended June 30, 1917

INCOME

Income of Funds.

| | | |
|--|----------|-------------------|
| Phillips Brooks House Endowment, | \$541.11 | |
| John W. and Belinda L. Randall, | 376.25 | |
| Ralph H. Shepard, | 584.22 | |
| Ralph Hamilton Shepard Memorial, | 289.58 | |
| Louise E. Bettens, | 33.89 | |
| Phillips Brooks House Association Endowment, | 20.70 | \$1,845.75 |
| Gift for student aid, | | 200.00 |
| | | <u>\$2,045.75</u> |

Balance constituted as follows:

| | | |
|--|----------|-------------------|
| Deficiency of restricted income met by charges against Funds and Gifts, | \$379.80 | |
| Less, Balance of restricted income Added to Funds and Gifts, | 294.19 | 585.11 |
| | | <u>\$2,630.86</u> |

EXPENDITURE

| | | |
|---|------------|-------------------|
| Phillips Brooks House Association, | \$1,700.00 | |
| Services and wages, | 322.20 | |
| Equipment and supplies, | 20.60 | |
| University Teas, | 250.00 | |
| Rent of piano, | 45.00 | |
| Student aid, | 200.00 | |
| Contribution to Harvard Dames, | 50.00 | |
| Laundry, | 41.85 | |
| Sundries, | 1.71 | |
| Repairs and equipment, land and building, | 129.91 | |
| Caretaking, land and building, | 1,903.01 | 4,663.78 |
| University charge. | | |
| Treasurer's Office, care of investments, | \$18.52 | |
| Bursar's Office, collections and payments, | 60.17 | |
| Inspector of Grounds and Buildings, salary and expenses, | 38.01 | |
| Watchmen, | 51.96 | |
| Engineer, | 12.81 | |
| Janitor, | 28.89 | 204.86 |
| | | <u>\$4,868.64</u> |
| Less amounts transferred. | | |
| Repairs and equipment, land and building, | \$129.91 | |
| Caretaking, land and building, | 1,908.01 | |
| University charge, | 204.86 | 2,237.78 |
| | | <u>\$2,630.86</u> |

PHILLIPS BROOKS HOUSE (CONTINUED)

EXPENDITURE

The above amounts are transferred as follows :

| | | |
|--|-------------------|--|
| 10% to University, Schedule 7, | \$223.78 | |
| Remainder, divided in proportion to the number of students : | | |
| College, Schedule 8, | 1,477.12 | |
| Schools of Architecture, Schedule 12, | 28.81 | |
| Graduate School of Business Administration, Schedule 14, | 101.52 | |
| Divinity School, Schedule 15, | 15.09 | |
| Law School, Schedule 16, | 891.46 | |
| | <u>\$2,387.78</u> | |

SCHEDULE 34

HEMENWAY GYMNASIUM

INCOME AND EXPENDITURE

For the year ended June 30, 1917

INCOME

| | | |
|---|------------|--------------------|
| Fees for the use of | | |
| Lockers, by students, | \$2,278.75 | |
| Gymnasium, by graduates, | 50.00 | \$2,323.75 |
| Deficit transferred to the following departments in proportion to the number of students. | | |
| College, Schedule 8, | \$7,503.71 | |
| Schools of Architecture and Landscape Architecture, Schedule 12, | 146.86 | |
| Graduate School of Business Administration, Schedule 14, | 515.78 | |
| Divinity School, Schedule 15, | 76.66 | |
| Law School, Schedule 16, | 1,988.60 | |
| Episcopal Theological School, | 89.69 | 10,800.75 |
| | | <u>\$12,624.50</u> |

EXPENDITURE

| | | |
|---|------------|--------------------|
| Salaries, | \$5,500.00 | |
| Services and wages, | 1,875.85 | |
| Apparatus, | 351.09 | |
| Equipment and supplies, | 39.85 | |
| Stationery, postage, telephone and telegraph, | 72.65 | |
| Printing, | 49.13 | |
| Sundries, | 7.39 | |
| Repairs and equipment, land and building, | 244.65 | |
| Caretaking, land and building, | 4,489.31 | \$12,129.92 |
| Amount carried forward, | | <u>\$12,129.92</u> |

HEMENWAY GYMNASIUM (CONTINUED)

EXPENDITURE

| | | |
|--|----------|--------------------|
| Amount brought forward, | | \$12,129.92 |
| University charge. | | |
| Bursar's Office, collections and payments, | \$125.66 | |
| Inspector of Grounds and Buildings, salary and expenses, | 21.10 | |
| Watchmen, | 278.44 | |
| Engineer, | 65.98 | |
| Purchasing Agent, | 8.40 | 494.58 |
| | | <u>\$12,624.50</u> |

SCHEDULE 35

STILLMAN INFIRMARY

INCOME AND EXPENDITURE

For the year ended June 30, 1917

INCOME

Income of Funds and Gifts.

| | | |
|---|-------------|--------------------|
| Robert Charles Billings, for Stillman Infirmary, | \$3,118.68 | |
| Free Bed Fund of the Class of 1868, | 328.41 | |
| " " for the Stillman Infirmary, . . . | 33.63 | |
| Herbert Schurz Memorial Free Bed Fund, . . | 238.60 | |
| Stillman Infirmary Gift, interest, | 489.76 | |
| Joseph and Lucius Tuckerman Free Bed, . | 515.00 | |
| Henry P. Walcott, | 165.00 | \$4,889.03 |
| Receipts from Students. | | |
| Infirmary annual fees, | \$12,060.60 | |
| Receipts from patients, | 4,621.65 | 16,682.25 |
| Receipts to replace amounts not charged students who pay the increased tuition fee: | | |
| College. Schedule 8, | \$3,944.00 | |
| Schools of Architecture and Landscape Architecture. | | |
| Schedule 12, | 116.00 | |
| Graduate School of Business Administration. | | |
| Schedule 14, | 564.00 | |
| Bussey Institution. Schedule 20, | 28.00 | 4,652.00 |
| | | <u>\$26,223.28</u> |
| Balance constituted as follows: | | |
| Deficit of general income transferred to University, | \$3,708.55 | |
| Less Balance of restricted income added to Funds and Gifts, | 489.76 | 3,218.79 |
| | | <u>\$39,442.07</u> |

STILLMAN INFIRMARY (CONTINUED)

EXPENDITURE

| | | |
|--|-------------|--------------------|
| Services and wages, | \$10,787.69 | |
| Equipment and supplies, | 9,512.29 | |
| Stationery, postage, telephone and telegraph, | 242.43 | |
| Printing, | 71.57 | |
| Sundries, | 107.42 | |
| Repairs and equipment, land and buildings, | 516.87 | |
| Caretaking, land and buildings, | 7,243.26 | \$28,481.08 |
| University charge. | | |
| Treasurer's Office, care of investments, | \$50.93 | |
| Bursar's Office, collections and payments, | 144.65 | |
| Medical Adviser, salary and expenses, | 750.00 | |
| Inspector of Grounds and Buildings, salary and expenses, | 32.85 | |
| Engineer, | 31.84 | |
| Purchasing Agent, | 1.27 | 1,011.04 |
| | | <u>\$29,442.07</u> |

SCHEDULE 36

NON-DEPARTMENTAL FUNDS AND GIFTS FOR
SPECIAL PURPOSES

INCOME AND EXPENDITURE

For the year ended June 30, 1917

INCOME

| | | |
|--|------------|--------------------|
| Anonymous Fund, | \$5,564.87 | |
| Anonymous Fund No. 2: | | |
| Interest, | \$1,115.26 | |
| Gifts Construction Freshman Halls, | 150.00 | 1,265.26 |
| Anonymous Fund No. 3, | | 13,542.98 |
| Anonymous Fund No. 4, | | 5,587.89 |
| Gifts for Arnold Arboretum Building, interest, | | 62.06 |
| Daniel A. Buckley Scholarship Fund (part), | | 1.44 |
| Bussey Trust (part), | | 3,361.67 |
| Gift from the Carnegie Foundation, | | 63,428.60 |
| Class of 1834 Fund, | | 109.30 |
| " 1842 " | | 7.62 |
| " 1844 " | | 639.22 |
| " 1853 " | | 158.31 |
| " 1854 " | | 172.37 |
| " 1856 " | | 565.52 |
| Amount carried forward, | | <u>\$94,466.11</u> |

NON-DEPARTMENTAL FUNDS AND GIFTS, ETC. (CONTINUED)

INCOME

| | | |
|---|-------------------|------------------|
| Amount brought forward, | | \$94,466.11 |
| Class of 1857 Fund, | | 300.00 |
| " 1858 " | | 73.28 |
| " 1864 " | | 165.57 |
| Dr. John C. Cutter Bequest (part), | | 416.94 |
| Henry Isaiah Dorr Bequest, | | 837.50 |
| Paul Dudley Fund, | | 245.04 |
| High Voltage Electrical Laboratory, interest, | | 371.36 |
| Calvin and Lucy Ellis Fund (part), | | 165.75 |
| Germanic Museum Building, interest, | | 1,655.87 |
| Godkin Lectures Fund, | | 913.76 |
| Gray Herbarium, gift for construction, interest, | | 45.25 |
| Gifts for the New Gymnasium Building, interest, | | 428.59 |
| Gift for flagpole on Stadium, | | 500.00 |
| Gurney Fund (part), | | 500.00 |
| Harvard Memorial Society, interest, | | 93.82 |
| Ingersoll Lecture Fund, | | 371.62 |
| Horatio King Fund (part), | | 403.75 |
| Morris Loeb Bequest, | | 24,416.05 |
| Gordon McKay Endowment (part), | | 1,000.00 |
| James J. Myers Fund, | | 5,819.16 |
| William Belden Noble Lectures Fund. | | |
| Interest, | \$1,561.94 | |
| Sales, | 5.48 | 1,567.42 |
| Henry S. Nourse Fund (part), | | 1,019.58 |
| John Knowles Paine Fund. Interest, | \$1,313.66 | |
| Royalties, | .37 | 1,314.03 |
| Robert Troup Paine, | | 2,727.38 |
| Professorship of Hygiene (1899) Fund, (part), | | 6,806.15 |
| " " " (1902) " | | 3,031.60 |
| " " " (1908) " | | 3,151.03 |
| Lectures on Political Economy Fund, | | 717.86 |
| Quarterly Journal of Economics. | | |
| Income of John E. Thayer Fund, | \$847.83 | |
| Sales, | 2,318.51 | 3,165.84 |
| Reserve Officers Training Corp, | | 1,775.00 |
| Retiring Allowance Fund. Interest, | | 20,495.61 |
| Gardiner Hubbard Soudder Fund, | | 524.53 |
| George Smith Bequest (part), | | 752.88 |
| Alexander W. Thayer Fund (part), | | 360.00 |
| Gifts for Tropical Medicine Hospital, interest, | | 214.50 |
| Ira D. Van Duzee Scholarship Fund (part), | | 264.55 |
| Amount carried forward, | | \$181,076.38 |

NON-DEPARTMENTAL FUNDS AND GIFTS, ETC. (CONTINUED)

INCOME

| | | |
|--|---------------------|---------------------|
| Amount brought forward, | \$181,076.88 | |
| Charles Wilder Fund, | 2,748.04 | |
| Daniel Williams Fund, | 854.75 | |
| Sarah Winslow Fund, | 247.15 | |
| Woodland Hill Fund, use of laboratory, | 1,000.00 | |
| | <u>\$185,926.82</u> | |
| Balance constituted as follows : | | |
| Deficiency of restricted income met by charges against | | |
| Funds and Gifts, | \$66,866.85 | |
| General Suspense, | 1,236.88 | |
| | <u>\$68,108.73</u> | |
| Less Balance of restricted income carried to | | |
| Funds and Gifts, | 45,811.80 | 32,391.93 |
| | | <u>\$208,218.25</u> |

EXPENDITURE

| | | |
|---|--------------|-----------|
| Anonymous Fund (part) annuity, | \$5,600.00 | |
| Anonymous Fund No. 2, | 71.75 | |
| Daniel A. Buckley Fund, taxes Deer Isle, Maine, | 1.44 | |
| Bussey Institution Endowment, legal services, | 378.00 | |
| Bussey Trust (part). | | |
| Annuities, | \$3,000.00 | |
| Taxes, | 1,861.67 | 3,861.67 |
| Gift from the Carnegie Foundation, Retiring Allowances, . . . | | 63,454.43 |
| Class of 1853 Fund, | | 158.81 |
| " 1856 " | | 478.95 |
| " 1857 " | | 450.00 |
| " 1864 " | | 167.41 |
| Dr. John C. Cutter Bequest, annuity, | | 416.94 |
| Horace Davis Bequest, inheritance tax. | | 451.25 |
| Henry Isaiah Dorr Bequest, annuity, | | 837.50 |
| Paul Dudley Fund, Dudley lectures, | | 116.00 |
| Calvin and Lucy Ellis Fund (part) taxes, | | 165.75 |
| Germanic Museum Building construction, | | 66,434.47 |
| Gurney Fund (part) annuities, | | 500.00 |
| Professorship of Hygiene, (1899) Fund, annuity, | | 6,000.00 |
| Ingersoll Lecture Fund, printing, | | 4.34 |
| Horatio King, annuity, | | 408.75 |
| Morris Loeb Bequest, annuity, | | 21,818.38 |
| Gordon McKay Endowment, legal expenses, | | 1,000.00 |
| William S. Murphy Scholarship Fund, taxes, | | 856.00 |
| James J. Myers Fund, annuities, | | 7,000.00 |
| Amount carried forward, | \$179,616.84 | |

**NON-DEPARTMENTAL FUNDS AND GIFTS,
ETC. (CONTINUED)**

EXPENDITURE

| | | |
|--|------------|----------------------------|
| Amount brought forward, | | \$179,616.34 |
| William Belden Noble Lectures Fund, | | 1,410.93 |
| Henry S. Nourse Fund, annuity, | | 1,019.58 |
| John K. Paine Fund, annuity, | | 1,245.00 |
| Lectures on Political Economy Fund, | | 250.00 |
| Quarterly Journal of Economics, | | 3,127.45 |
| Reserve Officers Training Corps, | | 1,775.00 |
| Retiring Allowance Fund, | | 13,046.11 |
| Gardiner Hubbard Scudder Fund, annuity, | | 664.97 |
| George Smith Bequest, annuities, | | 600.00 |
| Alexander W. Thayer Fund, annuity, | | 360.00 |
| Ira D. Van Duzee Fund, annuity, | | 196.23 |
| Charles Wilder Fund, annuities, | | 2,400.00 |
| Daniel Williams Fund. | | |
| Treasurer for Herring Pond Indians, | \$100.00 | |
| " Mashpee Indians, | 562.86 | 662.86 |
| Sarah Winslow Fund | | |
| Minister at Tyngsborough, | \$114.15 | |
| Teacher at Tyngsborough, | 114.16 | |
| Commission on income, credited to University, . . | 6.18 | 234.49 |
| Woodland Hill Fund. | | |
| Taxes, | \$1,198.60 | |
| Interest on advances, | 416.20 | 1,609.80 |
| | | <u><u>\$208,218.25</u></u> |

*Certificate of the Committee of the Overseers of Harvard College, for
examining the Accounts of the Treasurer*

The committee appointed by the Overseers of Harvard College to examine the accounts of the Treasurer, for the year ending June 30, 1917, have, with the assistance of an expert chosen by them, examined and audited the Cash-book and Journal, covering the period from July 1st, 1916, to June 30th, 1917, inclusive, and have seen that all the bonds, notes, mortgages, certificates of stock, and other evidences of property, which were on hand at the beginning of said year, or have been received by him during said year, are now in his possession, or are fully accounted for by entries made therein. They have also noticed all payments, both of principal and interest, indorsed on any of said bonds or notes, and have seen that the amounts so indorsed have been duly credited to the College.

They have in like manner satisfied themselves that all the entries for moneys expended by the Treasurer, or charged in his books to the College, are well vouched; such of them as are not supported by counter entries, being proved by regular vouchers and receipts.

They have also, by the aid of said expert, satisfied themselves that all the entries for said year are duly transferred to the Ledger, and that the accounts there are rightly cast, and correctly balanced.

(Signed)

W. CAMERON FORBES, *Acting Chairman*,
THOMAS W. SLOCUM,
WILLIAM C. ENDICOTT,

Of the
Committee on behalf of the
Board of Overseers.

Boston, December, 1917.

INDEX

Two or more entries on a page are indicated by a small figure at the right of the page number: 20³ indicates three entries on page 20.

Abbreviations are used as follows:—

| | |
|---|-----------------------------------|
| <i>A.</i> , Arnold Arboretum; | <i>L.</i> , Law School; |
| <i>B.</i> , Book Funds; | <i>M.</i> , Medical School; |
| <i>Be.</i> , Beneficiary and Loan Funds; | <i>O.</i> , Observatory; |
| <i>C.</i> , College; | <i>P.</i> , Professorship Funds; |
| <i>D.</i> , Divinity School; | <i>Pr.</i> , Prize Funds; |
| <i>F.</i> , Fellowship Funds; | <i>S.</i> , Scholarship Funds; |
| <i>G.B.</i> , Graduate School of Business Administration. | <i>S.I.</i> , Stillman Infirmary; |
| | <i>U.</i> , University. |

- Abbot (*S.*), 97.
 Abbot, J. W. P. (*C.*), 83, 161.
 Advancement of Astronomical Science (1901), 186, 208, 209.
 Advancement of Astronomical Science (1902), 64, 186, 208.
 Advances to Aids, 150.
 Aesculapian Club (*M.*), 52, 130, 131, 132.
 Agassiz, A., Bequest (*M.C.Z.*), 64, 122, 211.
 Agassiz, A., Bequest for Publications (*M.C.Z.*), 122, 211².
 Agassiz, G. R. (*O.*), 56, 137, 208, 209.
 Agassiz, G. R. (*M.C.Z.*), 122, 211.
 Agassiz, G. R. Special (*M.C.Z.*), 122, 211.
 Agassiz Memorial (*M.C.Z.*), 122, 211.
 Alford (*P.*), 83, 160.
 Alford (*S.*), 97.
 Allen, C. (*U.*), 78, 152.
 Allen, Thomas J. (*C.*), 83, 161.
 Ames, Anna C. (*S.*), 85, 188, 202.
 Ames Fund (*L.*), 117, 189, 190.
 Ames, J. B. (*Pr.*), 118.
 Ames, J. B., Loan, 118.
 Ames, O. (*D.*), 114, 185.
 Ames, R. C. (*Be.*), 105.
 Ames, Samuel Bequest (*L.*), 117, 189.
 Amory Astronomical Fund (*O.*), 137, 208.
 Anatomical Museum, 129, 193, 195.
 Anatomy Department, 50, 180.
 Andrews, H. C. (*D.*), 114, 185.
 Annual Catalogue, 156.
 Anonymous Fund (*U.*), 65, 78, 223, 225.
 Anonymous Fund No. 2 (*U.*), 65, 78, 223, 225.
 Anonymous Fund No. 3 (*U.*), 15, 65, 78, 223.
 Anonymous Fund No. 4 (*U.*) 26, 78, 223.
 Anonymous Fund for Library, 62, 110, 173.
 Anonymous Gift (Special Aid), 40, 97.
 Anonymous Gift School of Architecture, 29².
 Anonymous gifts for special purposes, 19, 24, 87.
 Appleton Chapel,
 Schedule 32, 219.
 Income, 219.
 Expenditure, 219.
 Gifts, 29, 95.
 Appleton, J. A. (*F.*), 119, 179.
 Appleton, N. (*Be.*), 105.
 Appleton, T. G. (*O.*), 137, 208.
 Appointment Office, 167.
 Arboretum Construction, 13, 139, 204, 223.
 Archaeology, Central American (*F.*), 96, 213.
 Architecture and Landscape Architecture Additions Fund, 29, 119, 179.

- Architecture and Landscape Architecture, Schools of:**
 Gifts for immediate use, 29.
 Funds, 119.
 Schedule 12, 179.
 Income, 179.
 Expenditure, 179.
Arnold Arboretum Fund, 189, 204.
Arnold Arboretum:
 Gifts for Capital, 13.
 Gifts for present use, 29-32, 189, 204.
 Funds, 189.
 Schedule 21, 204.
 Income, 204.
 Expenditure, 204-205.
Arnold Arboretum Building Gifts, 189, 204, 223.
Arnold Arboretum Endowment, 13, 189, 204.
Arnold, J. (A.), 139, 204.
Associated Harvard Clubs (S.), 40, 100.
Atherton, Percy Lee (C.), 83, 162, 165.
Austin, D. (C.), 83, 173.
Austin, D. (D.), 115, 186.
Austin, Edward (F. & S.) 143, 160, 168, 179, 186, 197.
Austin, Edward (M.), 124, 192, 195.
Ayer, A. (D.), 115, 186.

Babylonian Tablets, 145, 215.
Bacteriological Laboratory, 124, 182, 192, 195².
Bacteriology Department, 51, 130².
Baker, J. (D.), 115, 186.
Baker, W. F. (U.), 78, 152.
Balance Sheet, 6, 7.
Baldwin, W. H., Jr. (U.), 78, 152.
Baldwin, W. H., Jr., 1883 (C.), 83, 162.
Band Music (U.), 78, 152.
Barnard, Caroline M. (S.), 60, 78, 152.
Barnard, John (C.), 78, 152.
Barnard, J. A. (L.), 62, 63.
Barnard, James and Augusta, Law (L.), 117, 189².
Barnard, J. M. and A. Gift (L.), 118, 189².
Barringer, E. M. (M.), 124, 191.
Barringer, J. B. (C.), 83, 160.
Bartlett (S.), 97.
Bartlett, F. (M.), 124, 193, 196.
Bartlett, Matthew & Mary E., Mem'l (S.), 97.
Bassett (S.), 98.
Beebe, J. Arthur Bequest (U.), 59, 78, 152.
Belknap, J. (Pr.), 88, 108.
Bemis (P.), 117, 189.
Beneficiary and Loan Funds, College, 105, 162.
 Receipts, 162, 181, 186, 189.
 Payments, 165, 182, 187, 189.
Beneficiary Money Returned (D.), 115, 186.
Bennett, J. G. (Pr.), 108.
Bennett, P. S. (Pr.), 168.
Bermuda Biological Station, 82, 95.
Bettens, Louise E. (C.), 15, 86, 88, 162, 165.
Bettens, Louise E. (Ph. Br. Ho.), 26, 140, 220.
Bigelow (S.), 98.
Bigelow, A. (U.), 78, 152.
Billings, L. F. (S.), 184.
Billings, R. C. (A.), 64, 189, 204.
Billings, R. C. (Gray Herbarium), 83, 207.
Billings, R. C. (M.), 63, 124, 191.
Billings, R. C. (Pr.), 116.
Billings, R. C. (Stillman Infirmary), 141, 222.
Blake, S. (U.), 78, 152.
Blanchard, C. F. (U.), 78, 152.
Blanchard, J. A. (C.), 88, 161.
Bliss, Mrs. W. H. (B. I.), 15, 64, 188, 217, 218.
Blue Hill Meteorological Observatory:
 Gifts for Capital, 14.
 Gifts for Immediate Use, 83², 138, 210.
 Funds, 188.
 Schedule 26, 210.
 Income, 210.
 Expenditure, 210:
Bolles, F., Memorial (Be.), 105.
Bond Collection, 39, 119, 179, 180.
Book Fund of the Class of 1881, 110, 151, 171, 174.
Boott, F. (Pr.), 108.
Boott, Income for Books, 110, 171, 174.
Borden (S.), 98.

- Boston Newsboys' (S.),** 102.
Botanic Department, 83, 162, 205.
Botanic Garden (balance), 149.
Botanic Garden :
 Gifts for Immediate Use, 33, 145, 205.
 Schedule 22, 205.
 Income, 205.
 Expenditure, 206.
Botanical Museum :
 Gifts for Immediate Use, 33, 145², 206.
 Schedule 23, 206.
 Income, 206.
 Expenditure, 206.
Botanical Museum, cases, 145, 206.
Botanical Museum (balance), 149, 206.
Bowditch (S.), 98.
Bowditch, J. I. (M.), 124, 192, 195.
Bowditch, J. I. (O.), 187, 208.
Bowditch, N. I. (B.), 110, 171, 174.
Bowdoin (Pr.), 108.
Bowers, H. S. (Pr.), 85, 108.
Boydén, U. A. (O.), 187, 208, 209².
Boylston (P.), 88, 160.
Boylston, Elocution (Pr.), 108.
Boylston, W. N. (M., B.), 124, 192.
Boylston, W. N. (M., Pr.), 135, 192, 195.
Bradford, S. D. (U.), 78, 152.
Bradley, W. L. (A.), 189, 204, 205.
Brattle, W. (Be.), 105.
Brewster, C. O. (C.), 83, 162, 165.
Bright (B.), 110, 171, 174.
Bright (S.), 98, 119, 179.
Bright Legacy, 143.
Brimmer, M. (U.), 79, 152.
Brinckerhoff (M.), 124, 192.
Brooks House, Phillips :
 Gifts for Capital, 26.
 Gifts for Immediate Use, 58.
 Funds, 140.
 Schedule 33, 220.
 Income, 220.
 Expenditure, 220.
Brooks House, Phillips, Association Endowment, 26, 140, 220.
Brooks House, Phillips, Endowment, 26, 140, 220.
Brown, A. (Pr.), 118.
Brown, A. (S.), 98.
Brown, J. B. and B. (M.), 63, 125, 191.
Browne (S.), 98.
Bryant, J. D., Dental, 185, 200.
Buckley, D. A. (Be.), 60, 105, 183, 184, 223, 225.
Buckminster, M. W. (S.), 98.
Bullard Professorship of Neuropathology (M.), 125, 191.
Bullard, W. N. and K. E. (M.), 130, 181.
Burr (S.), 98.
Burr, F. H. (1909), (S.), 38.
Burr, R. D. (B., D.), 115, 187².
Burrell, H. L. (M.), 125, 191, 192, 195.
Bursar's Office Expenses, 155.
Business School Loan, 121, 184.
Bussey (A.), 189, 204.
Bussey (P., D.), 115, 186.
Bussey (P., L.), 117, 189.
Bussey Institution :
 Gifts for Capital, 15.
 Gifts for Immediate Use, 35.
 Funds, 188.
 Schedule 20, 202.
 Income, 202.
 Expenditure, 203.
Bussey Institution Endowment, 138, 202, 225.
Bussey Trust, 65, 143, 150, 186, 189, 202, 223, 225.
Buttrick, A. W. (Be.), 117.
Cabot, A. T. (F., M.), 133, 197.
Cabot, J. J. (S., M.), 133.
Cabot, Louis (M.C.Z.), 28, 122, 211.
Cabot, W. C. (Be.), 105, 186.
Cadwalader, J. L. (L.), 118, 189.
Cancer Hospital Endowment, 125, 193, 196.
Cancer Hospital, Gifts for current use, 53, 125, 194, 196.
Cancer Hospital New Laboratory Fund (M.), 53, 125, 194.
Cancer Hospital Proctor Maintenance, 125, 194.
Cancer Hospital Research, 53, 125, 194, 196.
Carnegie Foundation for the Advancement of Teaching, 143, 150, 223, 225.
Carter, J. C. (U.), 79, 152, 181.
Carter, J. C. (P., L.), 117, 189.
Carter, J. C., Loan (L.), 118.

- Carter, J. W. (*U.*), 59, 79, 152.
 Cary, T. (*S.*), 117.
 Castle, W. R. (*B.*), 22, 62, 110, 171, 174.
 Central American Archaeology (*F.*), 96, 213.
 Certificate, Committee to examine the Treasurer's Accounts, 227.
 Chapman, G. (*S.*), 117.
 Chapman, V. E. Mem. Fellowship, 15, 60, 96.
 Cheever, D. W. (*S.*), 134.
 Child, F. J. Memorial (*B.*), 110, 151, 171, 174.
 China, Gifts for Expedition to (*A.*), 139, 204¹.
 Chinese Students, 145.
 Choate, R. S. (*S.*), 98.
 Clapp, J. (*D.*), 115, 186.
 Clapp, J. (*S.*), 117.
 Clark, George Newhall (*S.*), 60, 98.
 Clarke, T. W. (*S.*), 98.
 Class Funds, 142.
 Class of 1802 (*S.*), 98.
 Class of 1814 (*S.*), 98.
 Class of 1815, Kirkland (*S.*), 98.
 Class of 1817 (*S.*), 98.
 Class of 1828 (*S.*), 98.
 Class of 1834, 65, 142, 223.
 Class of 1835 (*S.*), 98.
 Class of 1841 (*S.*), 98.
 Class of 1842, 79, 223.
 Class of 1844, 65, 98, 223.
 Class of 1846, 142.
 Class of 1851, 110, 171, 174.
 Class of 1852, Dana (*S.*), 98.
 Class of 1853, 65, 142, 223, 225.
 Class of 1854 (*U.*), 142, 223.
 Class of 1856 (*S.*), 98.
 Class of 1856, 18, 142, 223, 225.
 Class of 1856 Classical Publication Fund, 84, 150, 162, 165.
 Class of 1857, 18, 65, 142, 150, 224, 225.
 Class of 1858 (*C.*), 142, 224.
 Class of 1863 (*S.*), 18, 99.
 Class of 1864, 142, 224, 225.
 Class of 1867 (*S.*), 99.
 Class of 1868, Free Bed (*S.I.*), 141, 222.
 Class of 1877 (*S.*), 99.
 Class of 1877, Strobel Memorial (*B.*), 118, 172, 175.
 Class of 1879 (Loan, *M.*), 134.
 Class of 1880 (*U.*), 84, 160.
 Class of 1881 (*B.*), 110, 151, 171, 174.
 Class of 1881, Twenty-fifth Anniversary Fund (*C.*), 79, 161.
 Class of 1882 (*U.*), 26, 79, 160.
 Class of 1883 (*S.*), 99.
 Class of 1883 (*U.*), 26, 79, 161.
 Class of 1883, Special Fund (*C.*), 84, 162.
 Class of 1884 (*C.*), 84, 161.
 Class of 1885 (*C.*), 84, 161.
 Class of 1886, Dental Endowment Fund, 135, 200.
 Class of 1886 (*C.*), 84, 161.
 Class of 1887 (*C.*), 41, 84, 90, 161.
 Class of 1888 (*U.*), 60, 79, 161.
 Class of 1888, Dental Endowment Fund, 135, 200.
 Class of 1889 (*U.*), 60, 79, 161.
 Class of 1890 (*S.*), 40, 99.
 Class of 1890 (*U.*), 26, 79, 161.
 Class of 1891 (*U.*), 79, 161.
 Class of 1892 (*U.*), 27, 60, 79.
 Class of 1894 (*U.*), 27, 79, 161.
 Class of 1896 (*U.*), 27, 79, 161.
 Class of 1899 (*U.*), 27, 79, 161.
 Class of 1907, Dental Endowment Fund, 135, 200.
 Class of 1909, Dental Endowment Fund, 136, 200.
 Class of 1919 (*S.*), 40, 99.
 Class Subscription (*C.*), 84, 160.
 Classical Department (*S.*), 91¹, 99.
 Classical Library, 91, 150.
 Classical Publication Fund of the Class of 1856 (*C.*), 84, 150, 162, 165.
 Classics, Department of the, 35.
 Cobb, Samuel C. Bequest (*Be.*), 105.
 Codman, E. W. (*C.*), 60, 84, 161.
 Coggan, John (*C.*), 79, 152.
 Collamore, Helen Bequest (*A.A.*), 139, 204.
 Collamore, Helen Bequest (*Den. Sch.*), 136, 200.
 Collamore, Helen Bequest (*Gray Herb.*), 84, 207.
 College,
 Funds, 83.
 Gifts for Capital, 15-20.
 Sundry Gifts, 35-42.

Schedule 8, 160.
 Income, 160-165.
 Expenditure, 165-170.
 Schedule 10, 177.
 Comparative Medicine, School of (*M.*),
 128, 192.
 Conant, E. (*D.*), 115, 186.
 Conant, E. (Library), 110, 171, 178, 174.
 Conant, E. (*U.*), 79, 152.
 Condell, C. H. (*S.*), 99.
 Constantius (*B.*), 110, 171, 178, 174.
 Construction Gift (*A.*), 142, 204.
 Converse, E. C. (*P.*), 120, 188.
 Coolidge, A. C. and C. L. Hay Fund (*B.*),
 110, 171, 174.
 Coolidge, Debating (*Pr.*), 108.
 Coolidge, E. E. (*U.*), 60, 80, 152.
 Coolidge, F. S. (*S.*), 52, 184.
 Coolidge, T. J. (*C.*), 18, 60, 84, 150,
 162, 165.
 Coolidge, T. J., for Cancer Research
 (*M.*), 125, 193, 196.
 Corporation Office Expenses, 154.
 Cotting Gift (*Be.*), 184.
 Cotton, T. (*U.*), 80, 152, 154.
 Cowdin, J. (*U.*), 80, 152.
 Crocker, G. G. (*C.*), 84, 161.
 Croft, C. B. (*M.*), 125, 193, 196.
 Crowninshield (*S.*), 99.
 Cruft Memorial Laboratory, 169.
 Cryptogamic Herbarium, 149, 162², 165.
 Cummings, F. H. (*S.*), 119, 179².
 Cutler, S. N. (*B.*), 110, 171, 174.
 Cutter, J. C. (*M.*), 63, 125, 191, 224, 225.
 Cutting, Bayard (*F.*), 96.
 Cutting, W. Bayard, Jr., Bequest (*B.*),
 96, 110, 171, 174.
 Dana, Class of 1852 (*S.*), 98.
 Dane (*P.*), 117, 189.
 Dane, E. B. (*Engin. School*), 120, 181,
 182.
 Dane, E. B. Fund in Physics (*C.*), 84,
 162, 165.
 Danforth, T. (*Be.*), 105.
 Dante (*Pr.*), 108.
 Day, M. (*Be.*), 105.
 Dean's Loan Fund (*C., Be.*), 105.
 Dean's Office Expenses :
 College, 166.
 Dental School, 201.

Faculty of Arts and Sciences, 166.
 Graduate School of Arts and
 Sciences, 166.
 Graduate School of Business Admin-
 istration, 167.
 Graduate School of Medicine, 199-
 200.
 Medical School, 197.
 Summer School, 178.
 Degrand, Peter P. F. (*B.*), 22, 62, 111,
 171, 174.
 Denny (*B.*), 111, 171, 174.
 Dental Endowment Fund, Class of
 1886, 185, 200.
 Dental Endowment Fund, Class of 1888,
 185, 200.
 Dental Endowment Fund, Class of 1907,
 185, 200.
 Dental Endowment Fund, Class of 1909,
 186, 200.
 Dental School, 200.
 Funds, 185.
 Gifts for Capital, 20.
 Gifts for current use, 42, 200.
 Schedule 19, 200.
 Income, 200.
 Expenditure, 201-202.
 Dental School (balance), 150.
 Dental School Endowment, 20², 135²,
 186, 200⁴.
 Derby, G. and M. (*S.*), 99.
 Dexter, Charles, Memorial (*S.*), (bal-
 ance), 150.
 Dexter, J. (*S.*), 99.
 Dexter Lectureship (*D.*), 115, 186.
 Dillaway, G. W. (*F.*), 96.
 Divinity Hall, 187², 188.
 Divinity School :
 Gifts for Capital, 20, 21, 22.
 Funds, 114.
 Schedule 15, 185.
 Income, 185.
 Expenditure, 187-188.
 Divinity School (balance), 149, 185.
 Divinity School Endowment, 20, 114,
 185.
 Doe, O. W. (*C., S.*), 99.
 Doe, O. W. (*M., S.*), 184.
 Dormitories :
 College, 164, 168.
 Dorr, G. B. (*U.*), 59, 80, 152.

- Dorr, Henry I. Chair of Research and Teaching (M.),** 24, 68, 125, 224, 225.
- Draper, G. (U.),** 59, 80, 152.
- Draper Memorial (O.),** 25, 57, 137, 208², 209².
- Dudley, P. (C.),** 84, 224, 225.
- Duplicate Money (B.),** 114, 172, 175.
- Duplicate Money (M., B.),** 131, 192.
- Du Pont, A. I. (C.),** 18, 60, 84.
- Dwight, Thomas, Memorial (M.),** 24, 126, 192, 195.
- Eaton (P.),** 84, 160.
- Economics Department,** 85, 91², 92², 162, 165.
- Edda Club (S.),** 99.
- Eddy, R. H. (U.),** 59, 80, 152.
- Edmonds, J. R., Bequest (O.),** 137, 208.
- Education Department,** 85, 92², 96, 150.
- Electrical Laboratory,** 136, 216, 218.
- Eliot (P.),** 84, 160.
- Eliot, Charles (F.),** 119, 179.
- Eliot, Jon. Phillips' Gift (P.),** 60, 85, 160.
- Eliot, W. S. (S.),** 99.
- Ellery, J. (Be.),** 105.
- Ellis, C. and L. (M.),** 63, 126, 191, 224, 225.
- Ellis, C. and L. (Aid),** 143, 160.
- Ellis, H. (U.),** 80, 152.
- Emerson, G. H. (S.),** 99, 202, 203.
- Emperor William,** 123, 216.
- Endicott, William (M.),** 126, 193, 196.
- Engineering (P.),** 120, 181.
- Engineering Camp, Squam Lake,** 169.
- Engineering and Mining, Schools of:** 43.
- Funds,** 120.
- Schedule 13,** 181.
- Income,** 181.
- Expenditure,** 182.
- English Department,** 35, 92², 162, 165.
- Erving (P.),** 85, 160.
- Ethics. Social,** 95².
- Eveleth, J. (S.),** 99, 179², 181, 182.
- Exhibitions (Be.),** 105.
- Exhibits:**
- A,** 6-7.
- B,** 8-9.
- C,** 10-12.
- D,** 13-28.
- E,** 29-58.
- Expenditures and Receipts, General Statement,** 8-9.
- By departments,** 10-11.
- Fabyan, G., Foundation for Comparative Pathology (M.),** 126, 192, 195.
- Fabyan, G., Foundation, Special (M.),** 126, 192, 195.
- Fall River (S.),** 99.
- Farnsworth, Henry W. Memorial (L.),** 22, 50, 111, 173, 175.
- Farrar, E. (B.),** 111, 171, 174.
- Farrar (S.),** 99.
- Farrington, C. F. (M.),** 126, 192, 195.
- Fay, S. P. P. (1798) (S.),** 118.
- Fees:**
- Examination,** 164, 194.
- Graduation,** 164, 188, 187, 202.
- Hemenway Gymnasium,** 221.
- Infirmary (Dental School),** 201.
- Laboratory,** 164, 168, 181, 182, 183, 194.
- Laboratory (balances),** 149, 151.
- Library,** 173.
- Matriculation,** 194.
- Microscope,** 149, 194, 196.
- Registration,** 177.
- Stillman Infirmary,** 222.
- Tuition,** 164, 177, 181, 183, 187, 189, 194, 199, 200, 202.
- Fellowships:**
- Funds,** 96, 138.
- Receipts,** 15, 38, 96, 162, 179, 192.
- Payments,** 165, 179, 195, 213.
- Fenno, L. C. (M.),** 126, 193, 196.
- Fenno, L. C., Memorial Free Bed Fund (M.),** 126, 193, 196.
- Fine Arts Department,** 35, 36, 92⁴.
- Fines (B.),** 114, 172, 175.
- Fines Loan (C. Be.),** 105.
- Fisher (P.),** 85, 160.
- Fisher, G. (S.),** 118.
- Fisher, G. and E. H. (S.),** 99.
- Fitch, T. (Be.),** 106.
- Fitz, S. E. (M.),** 126, 191.
- Flattery Research Fund (M.),** 63, 126, 192, 193, 196.
- Flynt, E. (Be.),** 106, 160.
- Flynt, H. (Be.),** 85, 106.
- Flynt, H. (for Tutors),** 85, 160.

Fogg Art Museum :

Funds, 140.

Gifts for Immediate Use, 43, 44,
45, 46.

Schedule 31, 217.

Income, 217.

Expenditure, 217-218.

Fogg Art Museum, Exhibition Fund
(balance), 150.

Fogg, W. H., 43, 140, 217.

Folsom Memorial, Charles Follen (*F.*),
133, 197.Forbes, Waldo E. (*B. H. Obs'y*), 14,
138, 210.Forestry Operations at Petersham, 138²,
149, 150, 202, 203.Foster, J. (*Be.*), 134, 143.Foster, R. W. (*U.*), 80, 152.Free Bed Fund of the Class of 1868
(*S. I.*), 141, 222.Free Bed Fund for Stillman Infirmary,
141², 222.French, J. D. W. (*U.*), 59, 80, 152.French and other Romance Languages
Department, 93².

French Library, 93.

Freshman Loan (*Be.*), 106².Friend, Edwin William Memorial (*C.*),
19, 60, 106, 150.Frothingham (*P.*), 115, 186.Fuller, A. W. (*D.*), 115, 186.Fund for Permanent Tutors (*C.*), 85, 160.Fund for Religious Services (*C.*), 85,
219.

Funds and Gifts, 78.

Funds and Gifts for Special Purposes:
Schedule 36, 228.

Income, 223-225.

Expenditure, 225-226.

Funds in Trust for Purposes not con-
nected with the College, 145.

Funds, Summary of Changes, 148.

Gambrill, R. A. (*S.*), 100.Gardiner Memorial, J. H. (*B.*), 111, 171,
174.Gardner, G. A. (*C.*), 85, 150, 162, 165.Garrison, L. McK. (*Pr.*), 103.Gaston, William, Scholarship (*C.*), 100.Gay, George W. (*M.*), 24, 126.

General Publication Fund, 89, 163, 166.

General Suspense, 148-151.

Geology Department, 36², 93⁴.

Germanic Museum :

Funds, 123.

Schedule 30, 216.

Income, 216.

Expenditure, 216.

Germanic Museum, 123, 216.

Germanic Museum (balance), 149, 216.

Germanic Museum Building, 123, 224,
225.

Germanic Museum (Collections), 123.

Germanic Museum Endowment, 123,
216.

German Department, 111, 171, 174.

Gibbs, H. (*Be.*), 106.Gibbs, V. B. (*S.*), 122, 211².Gibbs, Wolcott, Memorial (*C.*), 85, 162,
165.

Gifts received for:

Funds (capital), 13-28.

Immediate Use, 29-58.

Gifts for General Purposes (*C.*), 90,
162.Gifts for General Purposes (*U.*), 83,
153.Glover, J. (*Be.*), 106.Godkin Lecture (*C.*), 85, 224.Goodwin, C. H. (*S.*), 100.Goodwin, O., Memorial (*F.*), 96.Goodwin, W. W. (*F.*), 96.Gore (*U.*), 80, 152.Gospel Church (*C.*), 85, 160.Gould, L. (*D.*), 115, 186.Government Department, 36², 93⁴.Graduate Schools of Applied Science,
balance, 149, 153.Graduate School of Business Adminis-
tration:

Balance, 149, 183.

Gifts for Capital, 14.

Gifts for Immediate Use, 33, 34,
121, 183.

Funds, 120.

Schedule 14, 183.

Income, 183.

Expenditure, 184, 185.

Graduate School of Business Adminis-
tration Endowment, 14, 120, 183.Graduate School of Business Adminis-
tration Deficit Fund, 34, 121.

Graduate School of Medicine :

Funds, 185.

Balance, 149, 150.

Schedule 18, 199.

Income, 199.

Expenditure, 199, 200.

Gray (Engravings), 140, 217².Gray, A. (Memorial) (*C.*), 22, 85, 207.Gray, A. (*P.*), 85, 207².**Gray Herbarium :**

Gifts for Capital, 22.

Gifts for Immediate Use, 47, 48, 49, 145.

Schedule 24, 207.

Income, 207.

Expenditure, 207.

Gray Herbarium (balance), 149, 207.

Gray Herbarium Construction, 142, 224.

Gray, J. C. (*U.*), 59, 152.Gray, for Zoölogical Museum (*M.C.Z.*), 122, 211.Greene, B. D. (*S.*), 100.Greene, Rebecca A. (*M.*), 126, 191.

Greenleaf, P., 65, 66.

Greenleaf, P. (*Aid*) (*Be.*), 106.Greenleaf, P. (*Lsb.*), 111², 171, 173, 174.Greenleaf, P. (*S.*), 100, 144.Greenough, F. B. (*M.*), 127, 192.Gross, Charles, Memorial (*B.*), 111, 171, 174.

Gurney, 85, 160, 224, 225.

Gymnasium, Gifts for new, 142, 224.

Hale, G. S. and E. S., 85, 111, 171, 174.

Hall, E. H. (*B.*), 111, 171, 174.Hall, Frederic Hilborn (*B.*), 23, 111, 171, 174.Hall, L. J. (*D.*), 115, 187².Hall, T. (*S.*), 100.Hallowell, N. P. '61, Memorial (*S.*), 100.

Hancock, C. L., 66, 115, 161, 186.

Hancock, J. (*P.*), 115, 186.Harding, Selwyn L., Scholarship of the Class of 1886 (*C. S.*), 100.Harlow, E. A. W. (*Be.*), 19, 106.Harlow, R. H. (*Be.*), 106.Harris (*F.*), 96.Harris, C. (*O.*), 137, 208.

Harris, H., 144, 152, 191.

Harvard Associated Clubs (*S.*), 40, 100.Harvard Club of Boston (*S.*), 40, 100.Harvard Club of Buffalo (*S.*), 40, 100.Harvard Club of Chicago (*S.*), 40, 100.Harvard Club of Cincinnati (*S.*), 40, 100.Harvard Club of Cleveland (*S.*), 40, 100.Harvard Club of Delaware (*S.*), 100.Harvard Club of Fall River (*S.*), 40, 100.Harvard Club of Fitchburg (*S.*), 40, 100.Harvard Club of Hawaii (*S.*), 40, 100.Harvard Club of Kentucky (*S.*), 100.Harvard Club of Long Island (*S.*), 40, 100.Harvard Club of Lowell (*S.*), 40, 101.Harvard Club of Lynn (*S.*), 40, 101.Harvard Club of Maryland (*S.*), 40, 101.Harvard Club of Michigan (*S.*), 40, 101.Harvard Graduates of Milton (*S.*), 40, 101.Harvard Club of Minnesota (*S.*), 40, 101.Harvard Club of Newburyport (*S.*), 41, 101.Harvard Clubs, New England Federation of, (*S.*), 41, 101.Harvard Club of New Hampshire (*S.*), 101.Harvard Club of New Jersey (*Pr.*), 41, 101, 108.Harvard Men of Newton (*S.*), 101.Harvard Club of Eastern New York (*S.*), 41, 101.Harvard Club of Philadelphia (*S.*), 41.Harvard Club of Rhode Island (*S.*), 101.Harvard Club of Rochester (*S.*), 41, 101.Harvard Rocky Mountain Club (*S.*), 41, 101.Harvard Club of Santa Barbara (*S.*), 41, 101.Harvard Club of St. Louis (*S.*), 41, 101.Harvard Club of San Francisco (*S.*), 41, 118.Harvard Club of Seattle (*S.*), 41, 101.Harvard Club of Somerville (*S.*), 101.Harvard Club of Syracuse (*S.*), 41, 101.Harvard Club of Washington, D. C. (*S.*) 41, 101.Harvard Club of Western Pennsylvania (*S.*), 41, 101.Harvard Club of Worcester (*S.*), 41, 101.

Harvard Commission on Western History, 86, 94.

- Harvard Dames Fund** (*Be.*), 88, 106.
Harvard Dental Alumni Endowment, 186, 200.
Harvard Economic Studies, 92, 150, 162, 165.
Harvard Endowment, 27, 80, 161.
Harvard Engineering Society of New York (*Be.*), 106.
Harvard Foundation for Exchanges with French Universities, 85, 152.
Harvard Medical Alumni, 52, 124, 191.
Harvard Medical Alumni Gifts, 129, 191.
Harvard Memorial Society, 144, 224.
Harvard Menorah Society (*Pr.*), 38.
Harvard Oriental Series, 85, 162, 165.
Harvard University Press, 58, 150, 159.
Hastings, W. (*U.*), 59, 80, 152.
Haven (*D.*), 115, 186.
Haven (*O.*), 137, 208.
Haven, G. (*S., M.*), 64, 134.
Haven, H. A. (*B.*), 111, 171, 174.
Haven, J. A. (*S.*), 102.
Hayden, L. and H. (*S.*), 134.
Hayes, F. B. (*B.*), 111, 171, 174.
Haynes, H. W. (*Peab. Mus.*) 123, 213.
Hayward, G. (*B.*), 111, 171, 174.
Hayward, J. (*O.*), 137, 208.
Hemenway (*F.*), 123, 213².
Hemenway, Mary, for Archaeology, (*Peab. Mus.*), 123, 213².
Hemenway Gymnasium:
 Schedule 34, 221.
 Income, 221.
 Expenditure, 221, 222.
Herbarium, 85, 207.
Hersey (*P.*), 85, 160, 191.
Hersey (Thomas Lee's) Gift (*P.*), 86, 160.
Higginson, G. (*P.*), 127, 191.
Higginson, H. L. (*U.*), 59, 80, 152.
High Voltage Electrical Laboratory, 142, 224.
Hill, J. J. (*P.*), 120², 183².
Hilton, W. (*S.*), 102, 181, 182.
History, Books, 163, 165.
History, Department of, 36, 93, 94².
Hoar, E. R. (*S.*), 102.
Hoar, L. (*S.*), 102.
Hoar, S. (*D.*), 115, 186.
Hodges (*S.*), 102.
Hodges, P. C. (*S.*), 138, 202, 203.
Hodges, R. M., 111, 175.
Hodgson Prizes (*G.B.*), 131.
Hodgson, Richard, Memorial (*C.*), 86, 163, 165, 173.
Holden, Albert F. (*C.*), 19, 86, 163, 165.
Hollingsworth, Rose (*C.*), 86, 207.
Hollis (*S.*), 102.
Hollis, Divinity (*P.*), 115, 186.
Hollis, Mathematics (*P.*), 86, 160.
Hollis, T. (*B.*), 111, 171, 174.
Hollis, Thomas (for Treasurer), 80, 152.
Holyoke, E. (*Be.*), 107.
Homans Memorial (*M.*), 127, 191.
Homer, S. (*B.*), 112, 171, 174.
Hooper, E. W. (*F.*), 96.
Hooper, F. H., Memorial Free Bed (*M.*), 127, 193, 196.
Hooper, S. (*P.*), 122, 211².
Hopkins, A. L., Memorial Free Bed (*M.*), 127, 193, 196.
Hopkins, E. (*Pr.*), 109.
Houghton, Silas A. Asst. Professorship (*M.*), 24, 127, 191.
Hubbard, T. (*C.*), 80, 152.
Hudson, John E. (*P.*), 19, 86, 160.
Hughes Loan (*L.*), 118.
Hulton, N. (*C.*), 80, 152.
Humboldt (*M.C.Z.*), 122, 211².
Humphrey, H. B. (*S.*), 102.
Hunnewell, W. P. (*M.C.Z.*), 122, 211².
Huntington, Collis P., Memorial Hospital, 53-56, 193, 194, 196.
Hutchinson, T. (*C.*), 80, 152.
Hyde, G. B. (*U.*), 80, 152.
Hyde, G. S. (*M.*), 127, 191.
Hygiene (*P.*), 60, 88, 160, 167, 224, 235.
Income and Expenditure:
 Consolidated Statement, 8, 9.
 By departments, 10, 11.
Increases and Decreases, Table of, 147.
Infantile Paralysis Investigation, 56, 131, 133.
Ingersoll Lecture (*C.*), 86, 224, 225.
Inspector of Grounds and Buildings, Office Expenses, 156.
Insurance and Guaranty (*U.*), 59, 80.
Investments held June 30, 1917:
 General, 68-75.
 Special, 59-67.

- Jackson Foundation (S.),** 117.
Jackson, H., Endowment (M.), 127, 192, 195.
Jackson Professorship of Clinical Medicine (M.), 127, 191.
Janitor's Office Expenses, 156.
Japanese Literature and Life (P.), 94.
Jarvis (B.), 112, 171, 174.
Jarvis, L. (U.), 81, 152.
Jefferson Physical Laboratory, 88, 163, 166.
Jennings, H. (S.), 120, 181.
Johnson, William Otis (S.), 134.
Jones, C. L. (S.), 102, 134.
Jones, C. M. (S.), 134.

Keayne, R. (Be.), 107.
Kendall, J. H. (S.), 117.
Kendall, N. (S.), 117.
Kidder, H. P. (D.), 116, 186.
Kidder, H. P. (U.), 81, 152.
Kimball, B. (Be.), 107.
Kimball, J. C. (D.S.), 117.
King, H. (B.), 112, 171, 174, 224, 225.
Kirkland, Class of 1815 (S.), 98.
Kirkland, J. T. (F.), 96.
Kissinger, John R. (F.), 138.
Kittredge Anniversary (B), 112, 171, 174.
Knight, G. A. (Pr.), 109.
Kuhn, H., Memorial (P.), 127, 192.

Laboratory Fees (balances), 149, 151.
Land and Buildings:
 General Investments, 76.
Lane, F. A. (B.), 112, 171, 174.
Lane, G. M. Bequest (C.), 86, 163.
Langdell (L.), 118.
Latin-American Professorship of History and Economics (P.) 88, 160, 163, 166, 172, 174.
Law School:
 Gifts for Immediate Use, 49.
 Funds, 117.
 Schedule 16, 189.
 Income, 189.
 Expenditure, 189-191.
Law School (Book Fund), 118, 189.
Law School (balance), 149, 189.
Law School Library (B.), 118, 189², 190.
Law School Research Scholarship, 119.

Lawrence, A. (C.), 86, 160, 181.
Lawrence, J. (C.), 86, 160, 181.
Lawrence Scientific School Loans Repaid, 81, 181, 182.
Leatherbee, G. H. (C), 61, 86, 163.
Lecompte, W. A. (P.), 127, 193, 195.
Lee, H. (P.), 87, 160.
Lee, H., Memorial (F.), 96.
Lee, J. (U.), 59, 81, 153.
Lee, T. (Reading) (C.), 87, 160.
Levy, H. M. (C.), 107.
Levy, H. M. (L.), 118.
Library:
 Gifts for Capital, 22, 23.
 Gifts for Immediate Use, 49, 50.
 Funds, 110, 151.
 Schedule 9, 171.
 Income, 171-173.
 Expenditure, 174-176.
 Schedule 10, 177.
Library Books, Gifts, 49, 50, 172, 175.
Lienow, H. (D.), 116, 186.
Lincoln, S. (C.), 87, 163, 166.
Lindall, M. (Be.), 107.
Linder, A. H. (S.), 134.
Loan, The (C. Be.), 107.
Locke, Calvin S. (C.) 87, 163.
Locke, H. W. (S.), 48, 120, 181, 182.
Lockwood, M. D., Memorial (M.), 127, 193, 196.
Lodge, G. C. and J. T. Stickney, Memorial (B.), 112, 171, 174.
Loeb, M. (C), 61, 87, 224, 225.
Longstreth, Morris (U.), 27, 18, 153.
Lovering, J. (C.), 87, 163, 166.
Lowell (B.), 112, 171, 174.
Lowell (Botanic Garden), 87, 205.
Lowell, F. C. (B.), 112, 171, 174.
Lowell, F. C., Memorial (Peab. Mus.), 123, 213.
Lowell, G. E. (S.), 102.
Lowell, H. N. (Dental), 136, 200, 201.
Lowell, H. N. (M.), 127, 193, 195.
Lowell, J. J. (B.), 23, 112, 171, 174.
Lowery, Woodbury, Memorial (C.), 87.
Lunar Photographs (Publishing), 187.
Lyman, A. T. (C.), 87, 160.
Lyman, S. B. (Be.), 107.
Lyman, S. B. (Loan, balance), 107.
Lyman, S. B. (Loan, L. S. S.), 81, 181.
Lyman, T. (U.), 81, 153.

- McCall, C. N. (C.),** 87, 160, 177.
MacDowell (F.), 91.
Mack, M. J. & Jennie Loan Fund (L.), 49, 119.
McIlwain, Robert C. (U.), 27, 81, 153.
McKay, G., Endowment, 27, 66, 81, 160, 179, 181, 183, 202, 224, 225.
McLean (P.), 87, 160.
Manning, Robert F. (S.), 102.
Markoe (S.), 102.
Massachusetts Society for Promoting Agriculture (A.), 14, 35, 139, 204.
Matchett (C.), 20, 87, 161.
Mathematics, Books, 94, 163, 166.
Mathematics Department, 94.
Matthews (S.), 102.
Mears, J. E., M. D. (S.), 52, 134.
Medical Adviser's Office Expenses, 158.
Medical Library, 127, 193.
Medical Loan Fund, Class of 1879, 134.
Medical School:
 Gifts for Capital, 24, 25.
 Gifts for Immediate Use, 50-56.
 Funds, 124.
 Schedule 17, 191.
 Income, 191-194.
 Expenditure, 195-198.
Memorial Hall and Sanders Theatre, 159.
Menorah Society (Pr.), 109, 150.
Merriam, C. (D.), 116, 186.
Merrick (S.), 102.
Metallurgical Chemistry Laboratory, 120.
Microscopes fees (balance), 149.
Military Science Department, 169.
Mills, A. (Be.), 107.
Mineralogy and Petrography Department, 19, 37², 94².
Mining Camp, 120, 181, 182².
Minot, C. (B.), 112, 171, 174.
Minot, C. S. (M.), 127, 193.
Mitchell, M. (F.), 57, 137, 208, 209.
Modern Languages, Division of, 37.
Moir, E. H. (C.), 61, 87, 161.
Morey (S.), 102.
Morgan, Henry T. (U.), 81, 157.
Moseley, Julia M. (M.), 64, 127, 194, 196.
Moseley, W. O. (P.), 127, 192.
Moseley, W. O., Jr. (F.M.), 133.
Mowison, Lady (S.), 102.
Municipal Government, 36, 93.
Munroe (Be.), 107.
Munson, I. (U.), 81, 153.
Murphy, W. S. (S.), 27, 144, 225.
Museum of Comparative Zoölogy:
 Gifts for Capital, 28.
 Funds, 122.
 Schedule 27, 211.
 Income, 211.
 Expenditure, 211, 212.
Museum of Comparative Zoölogy (balance), 149, 211.
Music Building Maintenance (C.), 87, 163, 166.
Music Department, 37, 87, 94.
Myers, James J. (C.), 61, 88, 224, 225.
Naumburg, Elkan (F.), 96.
Neuropathological Laboratory, Repayments, 132, 195.
Neuropathology, 51.
New England Federation of Harvard Clubs (S.), 41, 101.
Newgate, J. (C.), 88, 186.
New Subscription (M.), 128, 192.
Newsboys', Boston (S.), 102.
Nichols, H. G. (S.), 102.
Nichols, L. (M.), 128, 191.
Noble, W. B. (C.), 88, 224, 226.
Norton, C. E. (B.), 112, 172, 174.
Norton, C. E. (F.), 61, 96.
Nourse, H. S. (U.), 81, 153, 224, 226.
Observatory:
 Gifts for Capital, 25.
 Gifts for Immediate Use, 56, 57.
 Funds, 136.
 Schedule 25, 208.
 Income, 208.
 Expenditure, 209-210.
Observatory Endowment, 137, 208.
Old Testament Study (Pr.), 38, 109.
Oliver, J. P. (S.), 134.
Ophthalmology, Department of, 131.
Osgood, L. (B.), 112, 172, 174.
Osgood, L. (S.), 103.
Osgood, M. (B.), 112, 172, 174.
Overseers, Board of, Expenditure, 154.
Paine (P.), 137, 208.
Paine, J. K. (F.), 61, 96, 224, 226.

- Paine, Robert Treat (F.),** 96.
Paine, Robert Treat (O.), 137, 208.
Paine, Robert Troup, 66, 144, 224.
Palestine (Excavations), 145, 215.
Palfrey Exhibition (Be.), 107.
Palmer, G. H. (S.), 108.
Park, T. L., Bequest (C.), 88, 161.
Parker, F. E. (U.), 59, 81, 153.
Parker, J. (F.), 96.
Parkman (P.), 116, 186.
Parkman, F. (F.), 97.
Parkman, Francis, Memorial (B.), 62, 112, 172, 174.
Parkman, G. F. (B.), 112, 172, 174.
Parkman, G. F. (M.), 128, 192.
Parkman, G. F. (U.), 82, 153.
Pathological Laboratory, 128, 193.
Pathological Laboratory Repayments, 193, 195.
Pathology, Comparative, Department, 51, 130², 132.
Pathology, Department of, 51, 131.
Patria Society (Pr.), 109.
Payson, C. E., Memorial Free Bed (M.), 128, 194, 196.
Peabody (P.), 123, 213.
Peabody, A. P., Memorial (Be.), 107.
Peabody Building (Peab. Mus.), 64, 123, 213.
Peabody Collection (Peab. Mus.), 64, 123, 213.
Peabody, F. G. (C.), 88, 160, 163, 166.
Peabody, F. G. Professorship (D.), 21, 22, 116, 186.
Peabody, G. F. (S.), 61, 103.
Peabody Museum of American Archaeology and Ethnology:
 Gifts for Capital, 25.
 Gifts for Immediate Use, 57, 58.
 Funds, 123.
 Schedule 28, 213.
 Income, 213.
 Expenditure, 213, 214.
Peabody Museum of American Archaeology and Ethnology (balance), 149, 150, 213.
Peabody Professor (P.M.), 64, 123, 213.
Peirce, B. O. (B.), 23, 112, 172.
Peirce, D. H. (C.), 88, 160.
Peirce, J. M. (B.), 112, 172, 174.
Peirce, J. M. (S.), 103.
Pennoyer (S.), 103, 179².
Perkins (P.), 88, 160.
Perkins, C. E. (S.), 103.
Perkins, C. E. Memorial (B.), 50, 113, 151, 172, 174.
Perkins, R. A. (S.), 103.
Perkins, W. (U.), 82, 153.
Permanent (M.C.Z.), 122, 211.
Peters, E. D. (S.), 120, 182.
Pharmacology, Department of, 51.
Philadelphia (S.), 103.
Phillips, E. B. (O.), 137, 208.
Phillips, J. (C.), 88, 161.
Phillips, J. (Eliot P.) (C.), 60, 85, 160.
Phillips, W., Memorial (S.), 103.
Philosophical Library, 94.
Philosophy, Department of, 87, 94⁴.
Physical Laboratory, 88, 163, 166.
Physical Research (F.), 95.
Physics Department, 18, 37, 38, 95².
Physiology Department, 132.
Pickering, E. C. (F.), 137, 208.
Pierce, H. L. (U.), 82, 173.
Pierce, H. L. (Residuary) (U.), 59, 82, 173, 211.
Pierce, H. L. (Residuary) (M.), 128, 192.
Pierce, K. C. (Dent.) 136, 200.
Plummer (P.), 88, 186.
Political Economy, Lectures on (C.), 87, 224, 226.
Political Economy, Library, 91⁴, 92.
Pomroy, W. (Be.), 117.
Pope (P.), 88, 160.
Porter, C. B., Hall, 130.
Porter, C. B. (S.), 134.
Potter, S. A. (Pr.), 88, 109.
Potter, S. E., Endowment, 88, 207.
Pratt, Elnathan (S.), 103.
President's (U.), 82, 153.
President's Office Expenses, 154.
Preventive Medicine and Hygiene Department, 51, 131³, 132, 195.
Prichard, W. M. (Fogg Mus.), 140, 217².
Princeton (F.), 97.
Prizes:
 Funds, 108, 118, 135.
 Receipts, 34, 162, 186, 189, 192.
 Payments, 165, 187, 189, 195.
Proctor (M.), 125, 128, 193, 194, 195.
Proctor, E. H. (Dental), 136, 200.

- Proctor, Emily J. (*M.*), 128, 194, 196.
 Professorship of Hygiene, 60, 88, 160, 167, 224, 225.
 Professorship of Japanese Literature and Life, 94.
 Professorship of Latin-American History and Economics, 88, 160, 163, 166, 172, 174.
 Psychology, Department Laboratory, 94, 166.
 Public Buildings (*C.*), 168.
 Publication Fund, Business School, 183².
 Publication Fund, General, 89, 163, 166.
 Publication Office Expenses, 155.
 Purchasing Agent, 158.
 Putnam, F. W. (*Peab. Mus.*), 25, 123, 213.
 Quarterly Journal Economics, 224, 226.
 Quinby, J. W. (*D.*), 116, 186, 187.
 Quincy, J. (*O.*), 187, 208, 209².
 Quinquennial Catalogue, 158, 156.
 Randall, J. W. (*Fogg Mus.*), 140, 217².
 Randall, J. W. and B. L. (*Ph. Br. Ho.*), 140, 220.
 Rate of Dividing Income, 5.
 Receipts and Expenditures, General Statement, 8, 9.
 Recreation Grounds (*M.*), 130.
 Reed, W. (*S.*), 61, 103.
 Regent's Loan Fund (*Be.*), 107.
 Regent's Office, 158.
 Reisinger, Hugo (*Germ. Mus.*), 128, 216.
 Reisinger, Hugo (*B.*), 118, 172, 175.
 Religious Services (*C.*), 85, 219.
 Retiring Allowances, 58, 82, 143, 197, 224, 225, 226.
 Revere Family Memorial Fund (*Arch.*), 119, 179, 180.
 Ricardo Prize (*S.*), 40, 103.
 Richardson, M. H., Memorial (*M.*), 128, 193, 195.
 Richmond, A. C. (*D.*), 116, 186.
 Riverside (*U.*), 59, 82.
 Robinson, N., Jr. (*Archit.*), 119, 179², 180.
 Robinson, N., Jr., Additional (*C.*), 61, 89, 160, 166.
 Rockefeller, J. D. (*M.*), 128, 130, 192.
 Rodger (*S.*), 103.
 Rogers (*F.*), 97.
 Rogers, Ezekiel (*C.*), 82, 153.
 Rogers, H. B. (*S.*), 103.
 Rogers, H. B., Memorial (*F.*), 97.
 Ropes, Eliza O. and Mary P. (*P.*), 61, 89, 160, 213.
 Ropes, N., Jr. (*S.*), 103.
 Rotch, A. (*Archit.*), 119, 179.
 Rotch Bequest, A. L., 14, 138, 210².
 Royall (*P.*), 117, 189.
 Rumford (*P.*), 89, 161.
 Rumrill, J. A. (*S.*), 103.
 Ruppner, Dr. (*M.*), 128, 192.
 Russell, Daniel (*C.*), 82, 153.
 Russell, E. (*S.*), 103.
 Russell, J. L. (Botanic Garden and Gray Herbarium), 205, 207.
 Russell, J. L. (*D.*), 116, 186.
 Russell, J. L. (*U.*), 82, 89.
 Russell, Mary F. (*Dent.*), 136, 200.
 Sachs Research Fellowship (*C.*), 20, 97.
 Sales (*Pr.*), 109.
 Sales (*S.*), 103.
 Sales, F. (*B.*), 118, 172, 175.
 Salisbury (*B.*), 118, 175.
 Salisbury, S. (*B.*), 118, 172, 173.
 Saltonstall (*S.*), 103.
 Saltonstall, G. (*Archit.*), 119, 179.
 Saltonstall, L. (*S.*), 103.
 Saltonstall, M. (*S.*), 103.
 Sanskrit Department, 95.
 Sargent, J. O. (*Pr.*), 109.
 Savage, J., 144, 173, 208.
 Sawin, G. W. (*C.*), 89, 163.
 Sayles, R. W. (*C.*), 89, 163, 166, 178.
 Sayles, R. W., Summer Course in Geology, 109, 178.
 Scholarships:
 Funds, 97, 116, 118, 119, 184, 165, 181.
 Receipts, 18, 40, 162, 179, 181, 186, 189, 192.
 Payments, 165, 179, 180, 182, 187, 189, 195, 203.
 Scholarship and Beneficiary Money Returned (*Be.*), 107.
 Scholarship Money Returned (*L.*), 119.

- School of Comparative Medicine (*M.*), 128, 192.
- Schurz, H., Memorial Free Bed (*S. I.*), 141, 222.
- Scudder, G. H. (*M.*), 128, 224, 226.
- Searle, M. R. (*U.*), 82, 217².
- Sears, D. (*O.*), 187², 208².
- Sears, H. F. (*M.*), 128, 193, 195.
- Sears, Mrs. J. M. (*A. B.*), 139, 204².
- Sears, J. M., Jr. Memorial (*Pr.*, *L.*), 63, 119.
- Sears, P. H. (*S.*), 104.
- Secretary's Office Expenses:
- Administrative Board for Special Students, 166.
 - Committee on Choice of Electives, 167.
 - Faculty of Arts and Sciences, 167.
 - Graduate School of Arts and Sciences, 166.
 - Law School, 190.
- Semitic Building, 142.
- Semitic Collection, 145, 215².
- Semitic Library, 95.
- Semitic Museum:
- Funds, 145.
 - Schedule 29, 215.
 - Income, 215.
 - Expenditure, 215.
- Sever (*B.*), 113, 172, 175.
- Sever (*S.*), 104.
- Sewall (*S.*), 104.
- Sewall, J. (*Be.*), 107.
- Shaler Memorial (*C.*), 89, 163, 166, 211.
- Shapleigh, S. (*B.*), 113, 172, 175.
- Shattuck (*S.*), 104.
- Shattuck, F. C. (*M.*), 24, 128, 192, 199.
- Shattuck, G. C. (*P.*), 24, 64, 128, 192, 199.
- Shattuck, G. C., Memorial (*F.*), 133.
- Shaw, H. R. (*F.*), 97.
- Shaw, Robert Gould, 23, 62, 113, 173, 175.
- Sheldon, A. R., 113, 173.
- Sheldon, F. (*F.*), 66, 144, 179.
- Shepard, R. H. (*Ph. Br. Ho.*), 140, 220.
- Shepard, R. H., Memorial (*Ph. Br. Ho.*), 140, 220.
- Shimmin (*S.*), 104.
- Skillen Memorial (*M.*), 129, 192.
- Skinner, F. (*A.*), 139, 204.
- Skinner, F. (*M.*), 64, 129, 192.
- Skinner, Francis (*Be.*), 25, 134.
- Skinner, F., Jr. (*A.*), 139, 204.
- Slade (*S.*), 104.
- Smith (*P.*), 89, 161.
- Smith, Clement L. (*B.*), 113, 172, 175.
- Smith, D. (*S.*), 61, 104.
- Smith, G., 66, 142, 224, 226.
- Smith, J. W., Jr., Memorial (*Dental*), 136, 200.
- Social Ethics (Furnishings for the Department of), 95.
- Social Ethics (*F.*), 97.
- Social Ethics, Department of, 38, 95⁴.
- Society of Friends of the Fogg Art Museum, 44-46, 141, 217².
- Society for Promoting Theological Education, 43, 186.
- Sohier, G. B. (*B.*), 113, 172, 175.
- Sohier, G. B. (*Pr.*), 109.
- South End House (*F.*), 38, 97.
- South End House Social Education (*F.*), 97.
- Spackman, W. M. (*C.*), 89, 162.
- Spooner, W. B. (*D.*), 116, 186.
- Squam Lake Camp, 169.
- Stickney, J. (*Archit.*), 119, 179.
- Stillman, J. (*P.*), 129, 192.
- Stillman Infirmary Gift (balance), 141, 149.
- Stillman Infirmary:
- Funds, 141.
 - Schedule 35, 222.
 - Income, 222.
 - Expenditure, 223.
- Stone, H. B. (*C.*), 61, 89, 162.
- Story (*S.*), 104.
- Story, A. (*O.*), 137, 208.
- Stoughton (*S.*), 62, 104.
- Straus, I., Memorial (*G. B.*), 121, 183.
- Strobel, E. H., Memorial, Class of 1877 (*B.*), 113, 172, 175.
- Strobel, E. H., Memorial, Siam (*B.*), 113, 172, 175.
- Strong, C. P. (*S.*), 134.
- Students, Receipts from, 164, 177, 181, 183, 187, 194, 200, 222.
- Students' Employment Office, 167.
- Subscription for Library (*B.*), 113, 172, 175.
- Summer School (balance), 149.

